

By

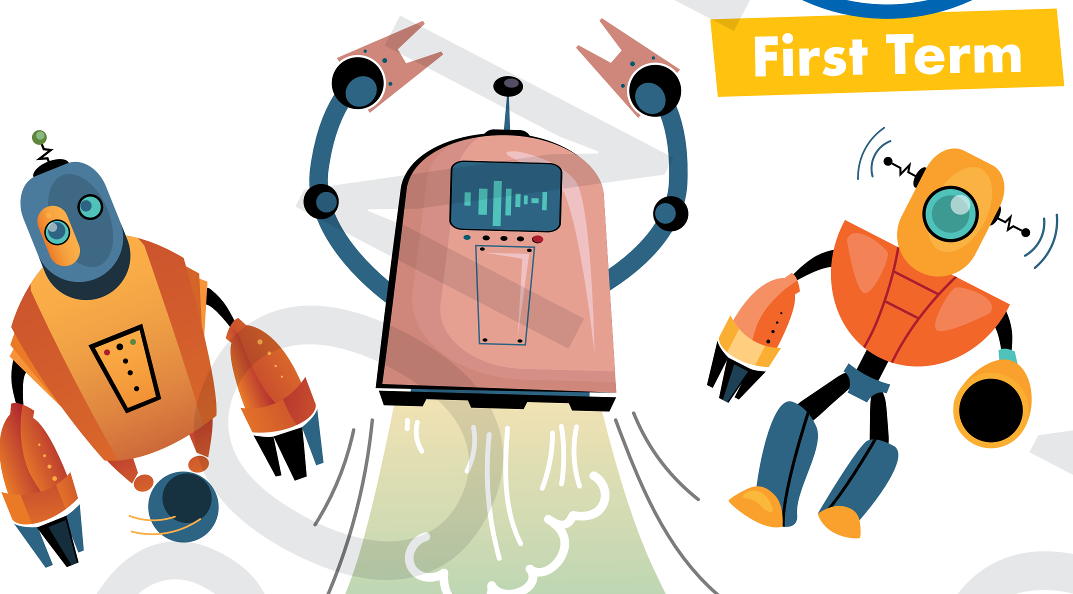
Eng. Osama Youssef



First Term

Preparation Team

Hamdy Ghoneim
Suzy Atef
Gamal Abdelnaser Rezk
Moaz AbdelAzim



Introduction

We are delighted to introduce our comprehensive educational series "Pony" in ICT. This book is designed to provide an interesting and attractive style that will capture your attention and keep you engaged throughout your learning journey.

We understand that learning can be challenging, which is why we have made every effort to provide clear and concise explanations of the topics covered in this book. In addition, the book includes a large number of comprehensive exercises designed to help reinforce your understanding of the concepts presented.

We have also taken great care to provide explanatory information for some of the more ambiguous points in the subject matter. We understand that some concepts may be difficult to grasp, and we have made every effort to provide clear explanations and examples to help you understand these points.

Overall, we hope that this book will help you develop a strong foundation in ICT and explore its exciting world.

We hope that you find this book informative, engaging, and enjoyable to read.

Author,
Eng. Osama Youssef



للتواصل: 01001822242
إدارة المبيعات: 01002221267



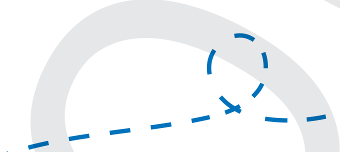
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Theme 1 Role of ICT in Our Lives



Theme 2 Digital Safety and Security Precautions





Theme 1

Role of ICT in Our Lives



Theme Lessons:

- Lesson 1 Explorer in Action
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- Lesson 3 Futuristic Technology
- Lesson 4 Evaluating Cutting-Edge Technology
- Lesson 5 Digital Research Skills
- Lesson 6 Mobile Devices
- Lesson 7 Operating Systems
- Lesson 8 Website Design



In this theme, you will learn about the mechanisms to deal with ICT (Information and Communication Technology) in order to cope with the latest technological developments.

This includes identifying the operating systems for devices, such as mobile devices and PCs.

You will also create the concept and plan a website that promotes a cutting-edge assistive technology product.



Lesson 1 Explorer in Action

درس إثرائي



Mr. Kartik Sawhney is:

1. **National Geographic Explorer**
2. **Computer Expert**

» His studies focused on:

1. **Artificial intelligence (AI)**
2. **Human-computer interaction**

» He uses technology to empower people of determination.

- السيِّد كارتيك ساوهني هو: ❶ مُستكشف نَشِط في ناشونال جيوجرافيك. ❷ خبير بالكمبيوتر.
- وقد ركَّز دراسته على: ❶ الذكاء الاصطناعي. ❷ التفاعل بين الإنسان وأجهزة الكمبيوتر.
- وهو يستخدم التكنولوجيا لمساعدة الأشخاص من ذوي الهِمَم.

» Mr. Sawhney creates applications that:

- Provide access to visual content for the blind and visually impaired.
- His app converts graphs into audio frequencies.
- This allows listeners to hear the difference in information in the graph.

- يبتكر السيِّد ساوهني تطبيقات تسمح للأشخاص المكفوفين وضعاف البصر بالوصول إلى المحتوى المرئي.
- هذه التطبيقات تقوم بتحويل الرسوم البيانية إلى تردُّدات صوتية؛ مما يسمح للمستمع أن يسمع الاختلاف في المعلومات بالرسم البياني.

1 I-Stem Platform

» There are over one billion people of determination worldwide. To help them, Mr. Sawhney co-founded I-Stem (istemai.com).

« يوجد أكثر من مليار شخص من ذوي الهِمَم حول العالم. ولكي يساعدهم شارك ساوهني في تأسيس I-Stem.

I-Stem (istemai.com)

- It is a platform that provides software that changes digital texts into a format that can be easily used by the blind and visually impaired.
- I-Stem: هي مِنَصَّة تُقدِّم برنامجًا يُغيِّر النصوص الرقمية إلى صيغة يمكن استخدامها من قِبَل المكفوفين وضعاف البصر بسهولة.



How does I-Stem work



- A person who can't read a text might upload that text to the I-Stem website.
- The software converts the file into a Word document.
- A few minutes later, the person receives the converted document and listens to the text using a screen reader, which automatically reads the text aloud.



- يمكن للشخص الذي لا يستطيع قراءة النص أن يُحمِّل ذلك النص إلى موقع I-Stem.
- يُحوِّل البرنامج الملف إلى مستند ببرنامج Word.
- بعد دقائق قليلة، يتلقَّى الشخص المستند المُحوَّل ويستمع إلى النصِّ باستخدام قارئ الشاشة الذي يقرأ النصَّ بصوت عالٍ.

Additional services on I-Stem for people of determination:

1. Mentorship opportunities.
2. Employment opportunities.

This is achieved by working with:

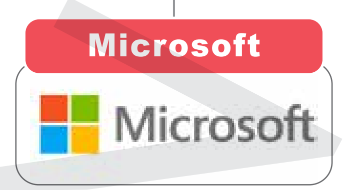
1. Governments
2. Technical universities
3. Corporations

Which is supported by:

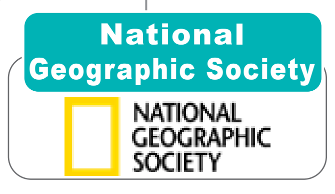
UNICEF



Microsoft



National Geographic Society



- The initiative makes the services and venues of the organizations more accessible for people of determination.

- تتضمَّن مِنَصَّة I-Stem خدمات أخرى للأشخاص من ذوي الهِمَم مثل:

1. فرص التدريب والإرشاد.
2. فرص التوظيف.

- ويتحقَّق ذلك من خلال العمل مع الحكومات والجامعات التكنولوجية والمؤسَّسات.
- والخدمات التي تقدمها المنصة مدعومة من: اليونيسيف، ومايكروسوفت، ومجتمع ناشونال جيوجرافيك.
- وهذه المبادرة تُسهِّل على ذوي الهِمَم الوصول إلى خدمات وأماكن المنظمات.

Volunteer mentors help people of determination with:
يساعد المرشدون المتطوعون أصحاب الهِمَم في:



Egypt's Efforts for People of Determination

» Egypt supports people of determination in many settings including:

1. Taha Hussein Library in the New Bibliotheca Alexandrina:
   - It has scanners with special software that converts printed text into audio.
   - This assists the visually impaired.

• تدعم مصر الأشخاص من ذوي الهِمَم في العديد من المجالات:

1 **مكتبة طه حسين في مكتبة الإسكندرية الجديدة:** تحتوي على ماسحات ضوئية مزودة ببرامج خاصة؛ لتحويل النص المطبوع إلى صوت.

2. Scholarships and special opportunities for gifted individuals:
   - Example: "The Miracle Child" Rania Saleh, a talented computer programmer with Down Syndrome.

2 **المنح والفرص المميزة للأفراد الموهوبين، مثل:** «الطفلة المعجزة» رانيا صالح، وهي مبرمجة كمبيوتر موهوبة مصابة بمتلازمة داون.

3. In 2022 Initiatives:
   - In 2022, Egypt launched several initiatives to empower Egyptian people of determination, such as:
     – Guide organizations to integrate employees of determination.
     – Create job opportunities.
     – Ministry of Manpower programs:
     Educate and train people of determination for the job market.

3 **مبادرات سنة ٢٠٢٢:** في عام ٢٠٢٢، أطلقت مصر عدَّة مبادرات لتمكين أصحاب الهِمَم المصريين، مثل:
ـ توجيه المنظمات لدمج الموظفين من أصحاب الهِمَم.   ـ خَلْق فرص العمل.
ـ توجيه وزارة القوى العاملة: لتعليم الأشخاص من ذوي الهِمَم وتدريبهم لسوق العمل.

Exercise Information

Mobile Phone

- Using a mobile phone can be difficult for people with **hearing-impaired**.
- There are **apps** that use **speech-to-text** technology to make communication by mobile phone easier.
- There are apps that use **voice recognition** technology to convert **speech to text** in real-time.
- The text appears while the person is talking.



- If the hearing-impaired users have speech problems, they can **type** instead.



- استخدام الهاتف المحمول قد يكون أمرًا صعبًا بالنسبة للأشخاص الذين يعانون من ضعف السمع.
- هناك تطبيقات تستخدم تقنية تحويل الكلام إلى نص؛ لتسهيل الاتصال عبر الهاتف المحمول.
- هذه التطبيقات تستخدم تقنية «التعرُّف على الصوت»؛ لتحويل الكلام إلى نص في الوقت الحقيقي.
- يظهر النص أثناء حديث الشخص.
- إذا كان الأشخاص ضعاف السمع يعانون من مشاكل في النطق، فيمكنهم الكتابة بدلًا من ذلك.

Example: Rogervoice app.



- **Hearing-impaired** people can download and install the app on smartphones.
- The people who receive the calls don't need to install it.
- It was downloaded by over 50,000 people worldwide.

مثال: تطبيق Rogervoice: يمكن لضعاف السمع تنزيل التطبيق وتثبيته على الهواتف الذكية، بينما الأشخاص الذين يتلقون المكالمات لا يحتاجون إلى تثبيته. تم تحميله من قِبَل أكثر من ٥٠,٠٠٠ شخص حول العالم.

There are many websites that help people of determination, such as:

هناك العديد من المواقع الإلكترونية التي تساعد أصحاب الهِمَم، مثل:

1. accessnow.org
2. bemyeyes.com.

أهم الكلمات والمصطلحات

English	العربية	English	العربية
Artificial intelligence	الذكاء الاصطناعي	People of determination	ذوو الهِمَم
Interaction	تفاعل	Expert	خبير
Blind people	مكفوفون	Platform	منصة
Mentorship	توجيه وإرشاد	Convert	يحول
Organization	منظمة	Employees	موظفون
Opportunities	فرص	Integrate	دمج
Voice recognition	التعرُّف على الصوت	Launch	يُطلق
Hearing-impaired	ضعاف السمع	Assist	يساعد - مساعدة
Volunteers	متطوعون	Realistic	حقيقي - واقعي

Exercises on Lesson 1

1 Choose the correct answer:

1. Mr. Kartik Sawhney is a/an ....
   a. explorer b. computer expert
   c. ecologist d. both a and b
2. Mr. Sawhney cofounded .... platform to help people of determination.
   a. I-access b. I-Stem c. Anghami d. none of them
3. Mr. Kartik Sawhney uses technology to empower ....
   a. people of determination b. computer engineers
   c. students d. teachers
4. Mr. Sawhney's studies focused on ....
   a. people of determination b. artificial intelligence
   c. human-computer interaction d. both b and c
5. .... is a website that helps blind and visually impaired people read digital texts.
   a. EKB b. Google c. I-Stem d. Facebook
6. "The Miracle Child" Rania Saleh is a talented .... with Down Syndrome.
   a. programmer b. explorer c. doctor d.both a and b
7. I-Stem platform is supported by ....
   a. National Geographic b. Microsoft
   c. UNICEF d. all of them
8. Sawhney's app converts graphs into .... for the visually impaired.
   a. braille b. audio frequencies
   c. tactile images d. text descriptions
9. I-Stem platform converts digital texts into formats easily used by the ....
   a. visually impaired b. blind people
   c. deaf people d. both a and b

10 The I-Stem platform converts uploaded texts into .... documents.
a. PDF b. Excel c. PowerPoint d. Word

11 Screen readers are used on I-Stem platform to ....
a. translate languages b. read text aloud
c. create subtitles d. generate images

12 The I-Stem platform provides .... opportunities for people of determination.
a. mentorship and employment b. healthcare
c. housing d. education

13 The I-Stem platform works with .... to achieve its goals.
a. universities b. governments
c. corporations d. all of them

14 Taha Hussein Library has scanners with special software to convert printed text into ....
a. digital text b. audio c. video d. graphs

15 Egypt's 2022 initiatives aim to .... people of determination.
a. relocate b. isolate c. empower d. medicate

16 People with hearing impairments use .... technology to convert speech to text.
a. image recognition b. voice recognition
c. GPS d. both a and b

2 Put (✓) or (✗):

1 Mr. Sawhney develops apps to help people of determination. ( )
2 The Taha Hussein Library has printers that can convert printed text into audio. ( )
3 Mr. Sawhney develops an app to convert graphs to audio frequencies. ( )
4 The Miracle Child" Rania Saleh" is a talented programmer. ( )
5 The I-Stem platform includes employment opportunities for people of determination. ( )
6 Rogervoice is an app designed to assist visually impaired individuals.( )

7 Kartik Sawhney studies focused on virtual reality. ( )

8 Mr. Sawhney cofounded the I-Stem platform to help people of determination worldwide. ( )

9 Egypt has not launched any initiatives to support people with disabilities. ( )

10 Mr. Sawhney develops apps to help hearing impaired people. ( )

11 Egypt offered scholarships and special opportunities to talented people. ( )

12 Screen readers convert speech to text for visually impaired users. ( )

13 istemai.com is a website that helps blind and visually impaired people to read text. ( )

14 I-Stem only provides software solutions and does not offer mentorship opportunities. ( )

15 The Ministry of Manpower is developing programs that prepare people of determination for the job market. ( )

16 The I-Stem platform works with governments and technical universities to support people of determination. ( )

17 Voice recognition apps for hearing-impaired users convert speech to text in real time. ( )

3 Complete the missing parts using the words between the brackets:

(Screen readers – I-Stem – rogervoice – hearing impaired – artificial intelligence)

1 Mr. Kartik Sawhney's studies focused on .... and human-computer interaction.

2 Hearing-impaired people can use .... app to help them in communication.

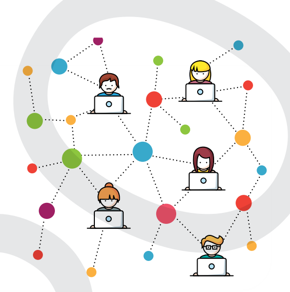
3 .... convert digital text to audio.

4 Mr. Sawhney cofounded .... platform.

5 Speech-to-text technology allows .... communicate by mobile phones.

Lesson 2 Computer Network Devices

Networks الشبكات



- They are groups of devices or things that are connected to each other for a common purpose.

• هي مجموعة من الأجهزة أو الأشياء المرتبطة ببعضها لهدف مشترك.

- Computers need different networks connection devices to transfer data, such as:

• تحتاج أجهزة الكمبيوتر إلى أجهزة اتصال بالشبكات لنقل البيانات، مثل:

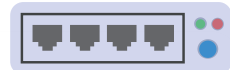
Modem المُودم



1. It is a device that connects a local area network (LAN) to the internet.
2. It converts and transforms the signal from the internet service provider (ISP) into a digital signal that can be read by devices.
3. It is used to connect users to the internet.

1. هو جهاز يُوصِّل شبكة محلّية (LAN) بالإنترنت.
2. يُحوِّل الإشارة من مزوِّد خدمة الإنترنت (ISP) إلى إشارة رقمية يمكن للأجهزة التعرُّف عليها.
3. يستخدم لربط المستخدمين بالإنترنت.

Switches المُحولات



- They can send data to a specific device over a network, which makes connections easier and faster.
- Switches are intelligent devices.

• يمكنها إرسال بيانات إلى جهاز مُعيَّن عبر شبكة؛ وذلك يساعد في تيسير التواصل وإسراعه.

• المحولات أجهزة ذكية.

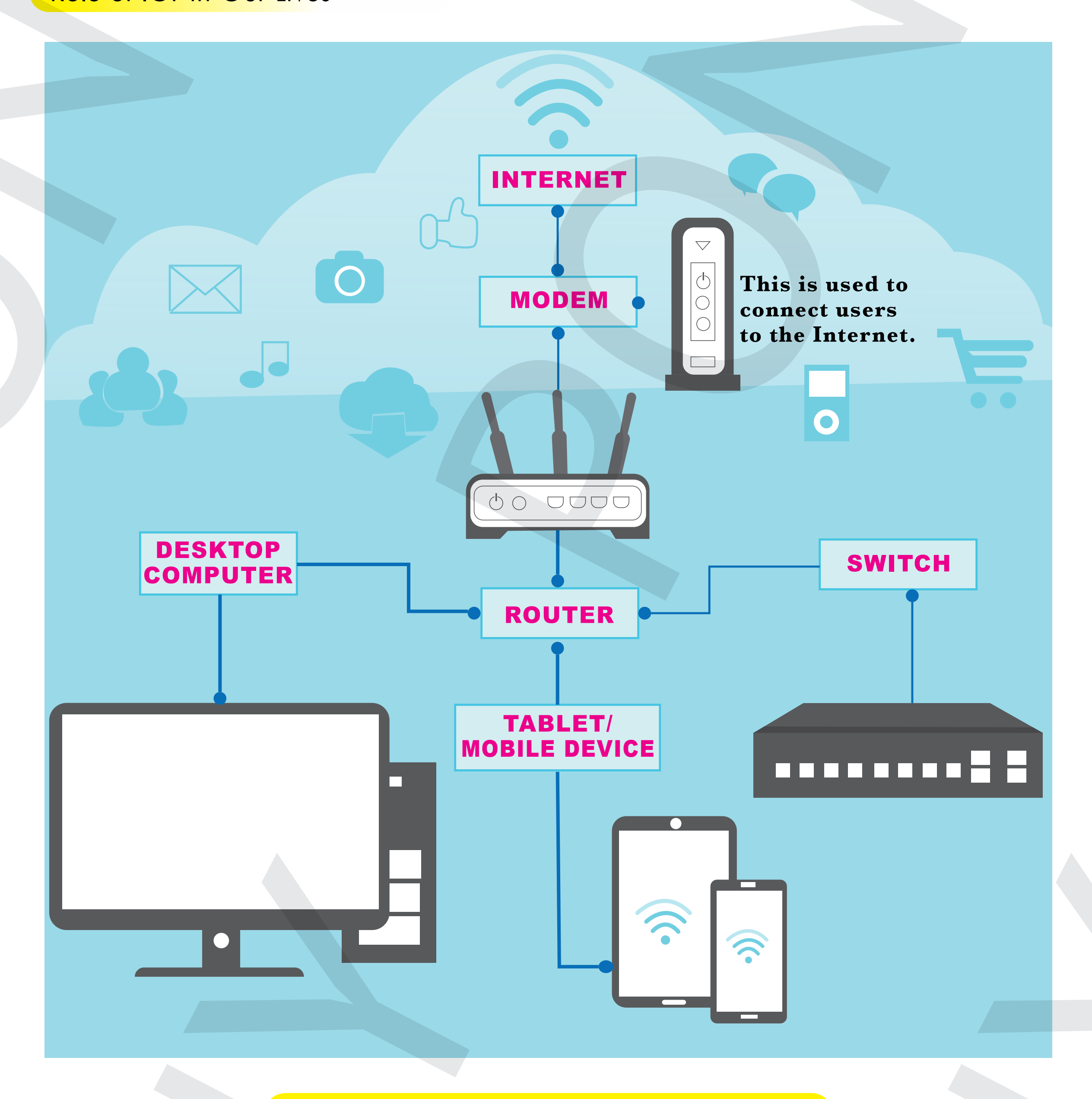
Router الراوتر



- As we studied in Grade 5,
  - It works as a gateway (connect computers to the ISP).
  - It connects a modem to different networks.

• يعمل الراوتر بمثابة بوابة لتوصيل الكمبيوتر بمزود خدمة الإنترنت.

• وهو يربط بين المودم ومختلف الشبكات.



Making Connections إنشاء اتصال

There are two main ways to connect computers to a network:

1 Wired Networks	2 Wireless Networks
• They use physical wiring and cables which are plugged into holes on devices, called ports. • تستخدم الأسلاك والكابلات التي يتم توصيلها بفتحات في الأجهزة تُسمى المنافذ.	• They connect devices without wiring through wireless or Wi-Fi. • تقوم بتوصيل الأجهزة بدون أسلاك من خلال التوصيل اللاسلكي أو Wi-Fi.

Artificial Intelligence (AI) الذكاء الاصطناعي

Artificial Intelligence (AI)

- It is a comprehensive term for computer applications that perform complex tasks that simulate the thinking and performance of the human element, such as the ability to learn and reason.

- الذكاء الاصطناعي: مصطلح شامل لتطبيقات كمبيوترية تؤدي مهام معقدة تحاكي بها تفكير العنصر البشري، مثل القدرة على التعلُّم والاستنتاج.

How does AI work? كيف يعمل الذكاء الاصطناعي؟



- AI is provided with:
  1. information and knowledge related to a subject.
  2. possible answers to all possible questions.
- Then the machine can give answers based on the data provided.

- يتم تزويد الذكاء الاصطناعي بما يلي:
  1. المعلومات والمعرفة المتعلقة بالموضوع.
  2. الإجابات المحتملة لجميع الأسئلة المحتملة.
- ومِن ثَمَّ يستطيع الجهاز تقديم الإجابات بناءً على البيانات المقدمة.

Applications of AI: تطبيقات الذكاء الاصطناعي

1. Writing an article on a topic.
2. Inquiring about historical events and their sequence.
3. AI can imitate sounds when provided with the tone of voice of an actual human being.

1. كتابة مقال حول موضوع ما.
2. الاستفسار عن الأحداث التاريخية وتتابعها.
3. يستطيع الذكاء الاصطناعي تقليد الأصوات عندما يتم تزويده بنبرة صوت إنسان حقيقي.

أهم الكلمات والمصطلحات

Internet Service Provider (ISP)	مزود خدمة الإنترنت	Human element	عنصر بشري	Wireless networks	شبكات لاسلكية
Specific device	جهاز محدد	Signal	إشارة	Purpose	غرض
Wired networks	شبكات سلكية	Common	شائع أو مشترك	Complex	معقد
Comprehensive	شامل	Sequence	تسلسل	Simulate	يحاكي
Machine	آلة	Imitate	يقلد		

Exercises on Lesson 2

1 Choose the correct answer:

1. .... is/are a group of devices or things that are connected to each other for a common purpose. (الإسكندرية – منتزه ثانٍ 2024)
   a. Devices b. Networks c. Routers d. Software

2. .... is/are the device(s) that can be connected to internet.
   a. Desktop computer b. Laptop computer
   c. All of them d. None of them (الإسكندرية – وسط 2024)

3. .... is/are computer applications that perform complex tasks that simulate the thinking and performance of humans.
   a. Artificial intelligence b. Holograms
   c. Networks d. Switches

4. .... networks connect devices using Wi-Fi.
   a. Wired b. Wireless c. Software c. Both a and b

5. Through .... you can transfer data with wires and cables.
   a. wireless networks b. Wi-Fi
   c. wired networks d. email (الإسكندرية – برج العرب 2024)

6. .... is a device that connects a local area network (LAN) to the internet.
   a. Artificial intelligence b. A modem
   c. A server d. A switch (الإسكندرية – شرق 2024)

7. Wireless networks are also known as ....
   a. LAN b. Wi-Fi c. modem d. switch

8. The abbreviation of artificial intelligence is ....
   a. AR b. ALT c. IA d. AI (دمياط 2024)

9. The modem converts the signals from the .... into a digital signal.
   a. device b. LAN c. ISP d. Wi-Fi

10 A network that is connected without wiring is named ....
a. physical wiring b. wireless c. ports d. cables

(الإسكندرية – شرق 2024)

11 Cables and wires in wired networks are plugged into holes called ....
(أبناؤنا في الخارج 2024)
a. ports b. Wi-Fi c. switches d. modems

12 .... are intelligent devices that send data to a specific device over a network.
(البحيرة – دمنهور 2024)
a. Switches b. Hubs c. Modems d. Cables

13 AI apps have the ability to ....
a. feel emotions
b. learn and reason
c. know the future
d. travel in time

14 A .... converts the signal from the internet service provider (ISP) into a digital signal.
(القاهرة – عين شمس 2024) (الغربية 2024)
a. modem b. router c. switch d. scanner

15 In networks, a LAN stands for ....
a. Long Area Network
b. Local Area Network
c. Large Area Network
d. Linked Area Network

16 .... works by mimicking voices by providing them with a natural human tone.
a. Programming
b. Artificial intelligence
c. A network
d. A switch
(أسيوط 2024)

17 Wired networks connect devices using ....
a.Wi-Fi b. wires c. cables d. both b and c

2 Put (✓) or (✗):

1 A computer doesn't need network connection devices to transfer data.
(القليوبية 2024) (   )

2 Devices can be connected without wiring (wireless or Wi-Fi). (   )
(الإسكندرية – وسط 2024) (دمياط 2024)

3 Wireless networks connect devices with physical wiring and cables.(   )

4. There is only one way to connect computers to a network, using cables. ( )
5. A modem is a device that connects a LAN to the internet. ( )

(السويس 2024)

6. Switches are used to connect computers to the ISP. ( )

(القاهرة الجديدة 2024)

7. Switches are intelligent devices. ( )
8. A modem converts the signal from the ISP into a digital signal that can be read by devices. ( )

(دمياط 2024)

9. Artificial intelligence can't imitate the sounds of people. ( )
10. A modem sends data to a specific device over a network. ( )

(الجيزة – الشيخ زايد 2024)

11. Switches are designed to slow down network connections. ( )
12. Wired networks use Wi-Fi to connect devices. ( )
13. Switches send data to a specific device over a network, which makes connections easier and faster. ( )

(الإسكندرية – وسط 2024)

14. Routers work as gateways that connect your device to ISP. ( )

(القاهرة الجديدة 2024)

15. AI can create articles on various topics. ( )

3 Complete the missing parts using the words between the brackets:

(intelligent – ports – specific – modem – AI)

1. .... can imitate the sounds of people by providing a tone of actual people. (البحيرة – دمنهور 2024)
2. Switches send data to a(an) .... device on the network.
3. In wired networks, cables and wires are plugged into ....

4 Switches are .... devices

5 A .... converts the signal from the (ISP) into a digital signal.

(الإسماعيلية 2024)

4 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 AI	a. connects a modem to different networks.
2 A router	b. are groups of devices or things that are connected together.
3 A switch	c. is a hole on devices where cables are plugged in.
4 Networks	d. computer applications that simulate the thinking and performance of people.
5 A port	e. is an intelligent device that send data to a specific device on the network.

1 .... 2 .... 3 .... 4 .... 5 ....

5 Read the examples and name the device:

Role of the Device	Device Name
1 .... connects network devices to one another.	
2 .... connects a modem to different networks.	
3 .... connects users to the internet.	

Test Yourself on Lessons 1&2

1 Choose the correct answer:

1. An example of an AI task is ....
   a. drinking coffee　b. driving a car
   c. writing an article　d. playing a sport
2. A .... is a device that connects a local area network (LAN) to the internet.
   a. modem　b. laptop　c. router　d. switch
3. 🔒 Rogervoice is a .... that helps hearing impaired people.
   a. drone　b. Bluetooth speaker
   c. VR headset　d. mobile app
4. Wired networks use wires and cables that are connected to openings in devices called .... (أسيوط 2024)
   a. switches　b. servers　c. modems　d. ports
5. 🔒 .... website includes mentorship and employment opportunities for people of determination.
   a. EKB　b. I-Stem　c. Facebook　d. Instagram
6. The abbreviation of artificial intelligence is .... (دمياط 2024)
   a. ALT　b. IA　c. AI　d. ARI
7. Groups of devices or things that are connected to each other for a common purpose ....
   a. networks　b. devices　c. software　d. AI

2 Put (✓) or (✗):

1. Switches don't send data to specific devices. (الإسكندرية – منتزه أول 2024) (　　)
2. A computer network connects computers to each other to share information (أسيوط 2024) (السويس 2024) (　　)
3. ISPs provide signals that modems convert into digital signals. (　　)
4. 🔒 The Miracle Child" Rania Saleh" is a talented programmer. (　　)
5. Devices can be connected to networks without wiring by using wireless or Wi-Fi. (　　)
6. 🔒 Mr. Kartik Sawhney is a photographer. (　　)
7. AI is unable to imitate the sounds of people by providing a tone of actual people. (　　)
8. Cables in wireless networks are plugged into holes called ports. (　　)

Lesson 3 Technology and Artificial Intelligence (AI)

❶ Augmented reality (AR). ❷ Virtual Reality (VR). ❸ Artificial intelligence (AI).

» They seem futuristic, but they are already being used in everyday life.

• يبدو أن الواقع المُعزَّز (AR) والواقع الافتراضي (VR) والذكاء الاصطناعي (AI) أنواع من التكنولوجيا المستقبلية، لكن يتم استخدامها بالفعل في التعليم والحياة اليومية.

Virtual Reality (VR) الواقع الافتراضي

Virtual reality (VR)

A virtual 3D environment that allows users to explore and interact with the surroundings as if they were in reality.

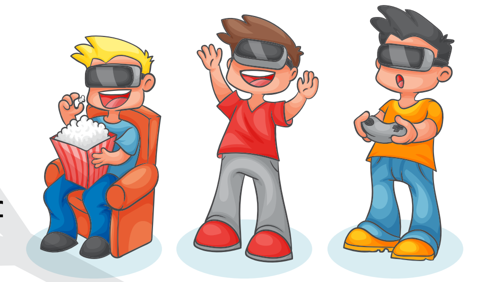
• **الواقع الافتراضي:** بيئة تخيلية ثلاثية الأبعاد تسمح للمُستخدِمين باستكشاف محيطهم والتفاعُل معه وكأنَّه حقيقة.

How does VR work? كيف يعمل الواقع الافتراضي؟

» To experience VR, users often wear a VR headset.

» VR headests block out the real world.

» It also provides immersed views of another world.



• لتجربة الواقع الافتراضي، يرتدي المستخدمون «سماعة رأس VR»؛ إذ تحجب عنهم الحياة الواقعية، كما توفر لهم الانغماس في عالم آخر.

Applications of VR in education: تطبيقات الواقع الافتراضي في التعليم

❶ Enlarge insects and atoms virtually, so you can study them closely.

❷ You can visit far museums virtually.

❸ You can travel virtually to historical sites hundreds of years ago.

❶ تكبير الحشرات أو الذرَّات افتراضيًّا؛ لتتمكَّن من دراستها بعناية.

❷ يمكن أيضًا من خلاله أن تزور المتاحف البعيدة افتراضيًّا.

❸ كما يمكنك السفر افتراضيًّا إلى مواقع تاريخية منذ مئات السنين.

Augmented Reality (AR) الواقع المعزز





Augmented Reality (AR)

It combines the real world with a virtual world by adding images using computers.

• يجمع الواقع المُعزَّز بين العالم الحقيقي والواقع الافتراضي بإضافة صور باستخدام بالكمبيوتر.

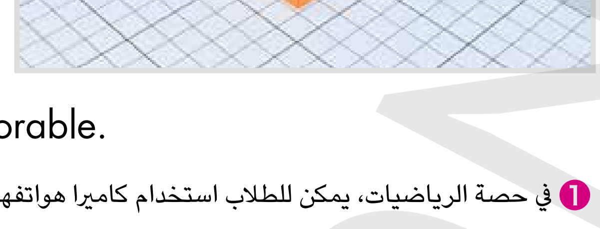
How does AR work? كيف يعمل الواقع المعزز؟

» It uses a **camera** of a smartphone or a tablet.
» It shows a **3-D model** of what the real world looks like.

• يمكن فعل ذلك بواسطة كاميرا الهاتف الذكي أو جهاز لوحي.
• وهذا سيعرض نموذجًا ثلاثي الأبعاد لما يشبه العالم الحقيقي.

Applications of AR in education: تطبيقات الواقع المعزز في التعليم

1. In a math class, students can use their smartphone camera to project 3D images of shapes like cubes or cylinders onto a flat surface, making it appear as if the shapes are in front of them.
2. AR helps students become active participants in learning.
3. AR makes learning more memorable.



1. في حصة الرياضيات، يمكن للطلاب استخدام كاميرا هواتفهم الذكية لعرض صور ثلاثية الأبعاد لأشكال مثل المكعبات أو الأسطوانات على سطح مسطح؛ مما يجعلها تبدو وكأنها أمامهم.
2. يساعد الواقع المُعزَّز التلاميذ ليصبحوا مشاركين نشطين في التعلُّم.
3. الواقع المُعزَّز يجعل التعلُّم لا يُنسى.

Artificial Intelligence (AI)

Artificial Intelligence (AI)

It is the ability of a machine, such as a computer, to think, learn, and deduce.

• الذكاء الاصطناعي: هو قدرة آلة مثل الكمبيوتر على التفكير والتعلُّم والاستنتاج.

How AI works? كيف يعمل الذكاء الاصطناعي؟

» A computer learns by analyzing the provided examples.

• يتعلم الكمبيوتر من خلال تحليل الأمثلة المتوفرة له.

Examples on using AI:

1. It predicts the word you will write from the words you have written previously.
2. AI is used to unlock your phone with facial recognition.

أمثلة على الذكاء الاصطناعي:

1. يتنبأ بالكلمة التالية التي ستكتبها؛ حيث يتعلَّم من الكلمات التي كتبتها سابقًا.
2. يُستخدم الذكاء الاصطناعي لإلغاء القفل وفتح هاتفك من خلال نظام التعرُّف على الأوجه.



Exercise Information

1. A robot vacuum that uses AI to avoid furniture and stairs.
2. AR apps show you how new furniture will look in your house.
3. A VR online tour of the tomb of King Tut, allows you to "walk" through the tomb.



Theme 1

How can futuristic technology improve education and life?

كيف يمكن للتكنولوجيا المستقبلية تحسين التعليم والحياة اليومية؟



» Futuristic technologies can improve the lives of people of determination.

1. Visually impaired people: Use AR to see family members up close.
2. Disabled individuals: Use virtual assistants powered by AI to:
   - Making phone calls.
   - Navigate their computers using voice or sign language.

« **يمكن للتكنولوجيا المستقبلية تحسين حياة الأشخاص ذوي الهِمَم، فعلى سبيل المثال:**

1. الأشخاص ضعاف البصر: يستخدمون الواقع المُعزَّز (AR)؛ لرؤية أفراد العائلة عن قُرب.
2. الأفراد المعاقون: يمكنهم استخدام مساعدين افتراضيين مدعومين بالذكاء الاصطناعي من أجل:
   - إجراء مكالمات هاتفية.
   - التنقل في أجهزة الكمبيوتر الخاصة بهم باستخدام أصواتهم أو لغة الإشارة.

أهم الكلمات والمصطلحات			
Immerse	ينغمس	Augmented reality	الواقع المُعزَّز
Facial recognition	التعرُّف على الوجه	Virtual reality	الواقع التخيلي (الافتراضي)
Headset	سماعة الرأس	Interact	يتفاعل
To experience VR	لتجربة VR	Combine	يجمع
Flat	مسطح أو مستوٍ	Ability	قدرة
Predict	يتوقع	Virtual assistant	المساعد الافتراضي
Deduce	يستنتج	Participant	مشارك
Futuristic Technology	التكنولوجيا المستقبلية	Surface	سطح
Cylinder	أسطوانة	Surrounding	البيئة المحيطة
Cube	مكعب		

Exercises on Lesson 3

1 Choose the correct answer:

1. .... feel(s) futuristic, but they are already being used in everyday life.
   a. Virtual reality (VR) b. Augmented reality (AR)
   c. Artificial intelligence (AI) d. All of them

2. .... combines the real world with a virtual world by adding images using computers. (أسيوط 2024) (الإسكندرية – منتزه ثانٍ 2024)
   a. Virtual reality b. Augmented reality
   c. Assistive technology d. Artificial intelligence

3. .... is a virtual 3-D environment that allows users to explore and interact with the surroundings, as if it were reality. (القاهرة الجديدة 2024)
   a. Virtual reality b. Artificial intelligence
   c. Assistive technology d. Augmented reality

4. The ability of the computer to think, learn, and deduce is ....
   a. virtual reality(VR) b. augmented reality(AR)
   c. artificial intelligence(AI) d. none of them (الإسكندرية – منتزه ثانٍ 2024)

5. Visually impaired people can use .... to see their family members up close. (الإسكندرية – برج العرب 2024)
   a. scanners b. augmented reality
   c. braille d. transformers

6. To experience virtual reality, users often wear ....
   a. 3D glasses b. smart gloves
   c. AR headsets d. VR headsets

7. Augmented reality can be done through a ....
   a. tablet b. computer
   c. hardware d. printer (القليوبية 2024)

8 Augmented reality shows a/an .... model of what looks like the real world.
a. 2-D b. 3-D c. 4-D d. invisible

9 Users often wear .... that block(s) out the real world.
a. a mobile b. Wi-Fi c. a mouse d. VR headsets

(القاهرة – عين شمس 2024)

10 In a math class, AR can project .... onto a flat surface.
a. video lectures b. text
c. 2-D shapes d. 3-D images

11 Facial recognition is a feature used to unlock your phone using ....
a. artificial intelligence b. virtual reality
c. augmented reality d. virtual assistant

12 VR can make .... appear larger, so you can study them closely
a. buildings b. planets
c. insects and atoms d. mountains

13 AI learns by .... available examples.
a. analyzing b. storing c. saving d. ignoring

14 .... predicts the word you will write from words you have written previously.
a. VR b. AR c. AI d. IR

15 .... can help disabled individuals make phone calls using voice commands.
a. Virtual assistant b. VR headsets
c. AR glasses d. Smartwatches

2 Put (✓) or (✗):

1 A computer learns by analyzing available examples. ( )

2 AR, VR, and AI are considered futuristic technologies. ( )

3 Virtual reality (VR) is a virtual 3-D environment. (المنوفية – تلا 2024) ( )

4 To experience virtual reality, users often wear AR headsets. (   )

5 Artificial intelligence (AI) is the computer's ability to think, learn, and deduce. (المنوفية – تلا 2024) (الدقهلية 2024) (السويس 2024) (   )

6 Augmented reality helps students become active participants in learning. (   )

7 There is no difference between augmented reality and virtual reality. (أسيوط 2024) (   )

8 Virtual reality combines the real world with a virtual world by adding images using computers. (الإسكندرية – شرق 2024) (الإسكندرية – وسط 2024) (   )

9 Futuristic technologies can't improve the lives of people of determination. (   )

10 Future technology can improve daily life. (أسوان 2024) (   )

11 Users often wear AR headsets that block out the real world. (   )
(الإسكندرية – منتزه أول 2024)

12 VR headsets allow users to see the real world while using them.(   )

13 Augmented reality can be done through mobiles and tablets. (   )
(القاهرة – عين شمس 2024)

14 AI can predict words based on previous writing. (   )

15 Virtual reality can show a 3-D model of what the real world looks like. (الإسكندرية – وسط 2024) (   )

16 AR combines the real and virtual worlds to show 3-D models that look real. (   )

17 Futuristic technologies can't help people with disabilities. (   )

18 AI is used to unlock your phone with facial recognition. (   )

19 Virtual reality allows you to explore distant museums without leaving your home. (   )

Theme 1

3 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 VR	a. includes AI, AR, and VR.
2 AR	b. it is the ability of a computer to think, learn, and deduce.
3 AI	c. can help disabled people to make phone calls.
4 Virtual assistants	d. it is a virtual 3-D environment that allows users to interact with the surroundings, as if it were reality.
5 Futuristic technlogy	e. it uses a smartphone camera to show a 3-D model of how new furniture will look in your house.

1 .... 2 .... 3 .... 4 .... 5 ....

Lesson 4

Evaluating Cutting-Edge Technology

Reliable Cutting-Edge Technology

Cutting-edge technology

It's the latest and most advanced version of a service or product.

• **التكنولوجيا المُتطوِّرة:** هي الإصدار الأحدث والأكثر تقدمًا من خدمة أو منتج.

Cutting-Edge Technology, such as:

Artificial Intelligence (AI)	Augmented Reality (AR)	Virtual Reality (VR)
		

» Cutting-edge technology has transformed life in ways that were unimaginable even a decade ago.

• أحدثت التكنولوجيا المتطورة تغييرات في الحياة بطُرُق لم يكن من الممكن تصوُّرها حتى قبل عَقْد من الزمان.

» Importance of cutting-edge technology:

1. It improves lives.
2. It improves inclusion of people of determination in society.

Example: Assistive technology smart gloves.

• أهمية التكنولوجيا المتطورة:

1 تحسُّن الحياة.

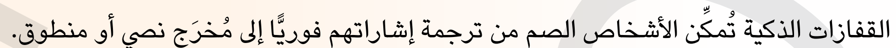
2 تحسُّن اندماج ذوي الهِمَم في المجتمع.

• **مثال:** القفازات الذكية من فئة التكنولوجيا المساعدة.

Theme 1

Smartgloves

They empower **deaf people** to translate their signs in real time to spoken or text output.


القفازات الذكية تُمكِّن الأشخاص الصم من ترجمة إشاراتهم فوريًا إلى مُخرَج نصي أو منطوق.

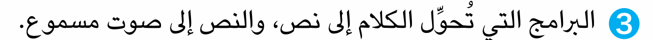

» **Assistive technology** helps people of determination.

Example:
1. Screen magnification software
2. Hearing aids
3. Speech into text and text to speech programs

• **التكنولوجيا المساعدة:** تساعد الأشخاص ذوي الهِمَم.

• **مثال:** ❶ برمجيات تكبير الشاشة.

❷ السماعات الطبية.


❸ البرامج التي تُحوِّل الكلام إلى نص، والنص إلى صوت مسموع.


A visually impaired man uses a scanning and reading machine

» It is important to be objective and evaluate these new technologies. **Why?**

- It allows society to be better-informed to make decisions regarding the use and development of such technologies

» There are different evaluation tools that we can use.

• من المهم أن نُقيِّم هذه التكنولوجيات الجديدة بموضوعية وعقلانية.

• التقييم يسمح للمجتمع بأن يكون على دراية أفضل لاتخاذ القرارات المُتعلِّقة باستخدام هذه التكنولوجيات وتطويرها.

• توجد أدوات تقييم متنوعة يمكننا استخدامها.

User Experiences (UX)

User experiences

They describe how people **use** and **interact** with a product and how they **evaluate** their experiences.

• تجربة المُستخدِم تصف كيفية استخدام الأشخاص للمنتج وتفاعلهم معه وكيفية تقييمهم لتجاربهم.

» User experience is often divided into different areas and can be **positive** or **negative**.

• تجربة المُستخدِم غالبًا ما تقسم إلى مجالات مختلفة، ويمكن أن تكون إيجابية أو سلبية.

Lesson 4

7 Factors that Affect User Experience

1 Accessible سهل الوصول إليها	• Is it accessible for people of determination? • هل هذه التكنولوجيا متاحة لأصحاب الهِمَم؟
2 Credible جديرة بالثقة	• Are the company and its products trustworthy? • هل الشركة ومنتجاتها جديرة بالثقة؟
3 Desirable مرغوب فيها	• Does the product meet your needs? • هل يلبي المنتج احتياجاتك؟
4 Findable قابلية إيجاد حل	• If there is an issue with the product, can I find the solution? • إذا كان هناك مشكلة في المنتج، هل يمكنني إيجاد حل؟
5 Usable قابلة للاستخدام	• Is it easy to use? • هل هو سهل الاستخدام؟
6 Useful مفيدة	• Is it practical? • هل هو عملي؟
7 Valuable قيّمة	• Does the product improve my life or help me learn? • هل المنتج يُحسن حياتي أو يساعدني في التعلم؟

Meeting Needs تلبية الاحتياجات

» User experience is interlinked with the **development** of products and services.

Example: The goal of cutting-edge assistive technology:

1. To improve someone's independence.
2. Consequently, to be included in society.

• ترتبط تجربة المُستخدِم بتطوير المنتجات والخدمات.

• **الهدف من التكنولوجيا المُساعِدة المتطوِّرة:** 1 تحسين استقلالية شخص ما. 2 وبالتالي اندماجه في المجتمع.

أهم الكلمات والمصطلحات

Cutting-edge technology	تكنولوجيا حديثة متطورة	Assistive technology	التكنولوجيا المساعدة	Improve	يُحسِّن - يُطوِّر
Service	خدمة	Desirable	مرغوب فيه	Unimaginable	لا يمكن تخيلها
Product	منتج	Valuable product	منتج ذو قيمة	Empower	يمكن
Deaf	ضعيف السمع	Trustworthy	جدير بالثقة	Inclusion	اندماج
Signs	إشارات	Findable	قابلية إيجاد حل	Education	تعليم
Incredibly varied	تتنوع كثيرًا	Credible	جدير بالثقة	Independence	استقلالية
Categories	فئات	Usable	قابلة للاستخدام	Development	تطوير
Accessible	سهل الوصول إليه				

Exercises on Lesson 4

1 Choose the correct answer:

1. .... technology is considered as the latest and most advanced version of services or products. (أبناؤنا في الخارج 2024)
   a. Cutting-edge b. Assistive c. Past d. Traditional

2. .... technology helps people of determination with tasks they find challenging.
   a. Assistive b. Cutting-edge
   c. Virtual d. Information

3. Screen magnification software, hearing aids, and programs that turn speech to text and text speech are examples of ....
   a. futuristic technology b. cutting-edge technology
   c. assistive technology d. none of them

(الإسكندرية – وسط 2024)

4. .... in user experience means the company and its products are trustworthy.
   a. Accessible b. Credible c. Desirable d. Findable

5. .... describe(s) how to use the product and interact with it.
   a. Futuristic technology b. User experiences
   c. VR d. AI (الإسكندرية – منتزه أول 2024)

6. Artificial intelligence, augmented reality, and virtual reality are examples of .... technology.
   a. assistive b. cutting-edge
   c. outdated d. simple

7. Evaluating new technologies helps society make better decisions about their .... of such technologies.
   a. cost b. color
   c. use and development d. popularity

8 A practical product is considered .... in user experience.
a. useful
b. usable
c. findable
d. desirable

9 .... empower deaf people to translate their signs in real time to spoken or text output.
a. Hearing aids
b. Screen readers
c. Scanners
d. Smart gloves (الإسكندرية – منتزه أول 2024)

10 If the product is practical and meets customer needs, the user experience will be ....
a. positive
b. negative
c. neutral
d. expensive

11 A product that meets your needs is considered .... in user experience terms.
a. accessible
b. desirable
c. findable
d. valuable

12 Complicated and hard-to-use products result in .... user experiences.
a. positive
b. negative
c. neutral
d. cheap

13 .... in user experience means the product is easy to use.
a. Accessible
b. Credible
c. Desirable
d. Usable

14 User experience is .... with product development.
a. unrelated
b. opposite
c. interlinked
d. unnecessary

15 If a product improves your life or helps you learn, it is considered ....
a. accessible
b. credible
c. valuable
d. findable

2 Put (✓) or (✗):

1 Cutting-edge technology is the latest and most advanced version of a service or product. (البحيرة – دمنهور 2024) (   )

2 Smart gloves are a type of assistive technology. (   )

3 User experience is always positive. (   )

4 Artificial intelligence is an example of advanced technology. (   )

(السويس 2024)

5 Programs that convert speech to text and vice versa are a type of assistive technology. ( )

6 User experience describes how people use and interact with a product. (الإسكندرية – برج العرب 2024) ( )

7 The development of products and services doesn't affect the user experience. ( )

8 Cutting-edge technology helps people of determination. ( )
(الغربية 2024)

9 Usable product means the product is difficult to use. ( )

10 Smart gloves empower blind people to translate their sign to spoken or text output. (الجيزة – الشيخ زايد 2024) ( )

11 Assistive technology helps people of determination to be included in the society. (القليوبية 2024) ( )

12 Advanced assistive technology helps people integrate into society. (أسوان 2024) ( )

13 If the product is pleasant to look at and interact with, this make the user experience negative. ( )

14 The goal of cutting-edge assistive technology is to improve independence and inclusion in society. ( )

3 Complete the missing parts using the words between the brackets:

(Cutting-edge technology – User experiences – Smartgloves – Assistive technology – Hearing aids)

1 .... translate sign language to speech or text.

2 .... helps people of determination with tasks they find challenging.

3 .... is/are how people feel about using a product.

4 .... is/are the latest and most advanced technology.

5 .... is/are a type of assistive technology that can help people with hearing troubles.

4 Match the "user experience" to the definition:

Accessible a	Credible b	Desirable c	Findable d	Usable e	Useful f	Valuable g

No.	Question	Answer
1	If there is an issue with the project or service, can I find the solution?	
2	If is easy to use?	
3	If it accessible for people of determination?	
4	Are the company and its products trustworthy?	
5	Does this product improve my life or help me learn?	
6	Does the product meet your needs?	
7	Is it practical?	



Test Yourself on Lessons 3&4

1 Choose the correct answer:

1. .... helps people of determination.
   a. User experience
   b. Assistive technology
   c. Virtual reality
   d. A screen (القاهرة – عين شمس 2024)
2. The .... is/are used as a 3-D environment that allows interaction with the surroundings as if it is real.
   a. assistive technology
   b. switches
   c. digital footprint
   d. virtual reality (أبناؤنا في الخارج 2024)
3. Smart gloves are .... technology.
   a. cutting-edge b. assistive c. outdated d. both a and b
4. Augmented reality combines the real world with .... world.
   a. virtual b. AI c. space d. fake (الغربية 2024)
5. A robot vacuum uses .... to avoid furniture and stairs.
   a. GPS b. glasses c. GPR d. AI
6. The user experience can be ....
   a. positive
   b. negative
   c. both a & b
   d. none of them
7. AR typically uses .... to add virtual images to reality.
   a. special goggles
   b. smartphones or tablets
   c. VR headsets
   d. projectors

2 Put (✓) or (✗):

1. Artificial intelligence (AI) is the ability of a computer to think, learn and deduce. (الإسكندرية – برج العرب 2024) (   )
2. AR helps students become active participants. (   )
3. A VR online tour allows you to "walk" through the tomb of King Tut. (   )
4. User experience only refers to how a product looks. (   )
5. Artificial intelligence can be used to improve daily life. (الإسماعيلية 2024) (   )
6. There is no difference between augmented reality and virtual reality. (   )
7. To experience VR users often wear a VR headset that blocks out the real world. (   )
8. An AR shows you how new furniture will look in your house. (   )

Lesson 2 How to Deal With Electronic Games

Advantages of Electronic Games: مميزات الألعاب الإلكترونية

Electronic games played over the internet with friends, can be a lot of fun.

1. They can promote critical and creative thinking.
2. They can promote critical and creative thinking.
3. They encourage teamwork.

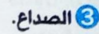
يمكن أن تكون الألعاب الإلكترونية التي يتم لعبها عبر الإنترنت مع الأصدقاء ممتعة للغاية.
① يمكنها تعزيز التفكير النقدي والإبداعي.
③ تشجع العمل الجماعي.

Disadvantages of Electronic Games: عيوب الألعاب الإلكترونية

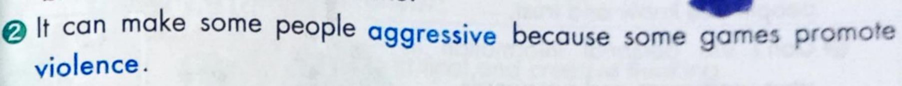
1. Physical Dangers المخاطر الجسدية
2. Psychological Dangers المخاطر النفسية
3. Security Dangers المخاطر الأمنية

1 Physical Dangers المخاطر الجسدية

1. **Sleep Cycle:** Playing too much can affect your sleep cycle. It may keep you stimulated and prevent you from falling asleep.
2. **Eye Strain**
3. **Headaches**
4. **Back Problems:** Because you stay hunched over while playing.
5. **Weight Gain:** Because you may not be exercising or eating properly while playing.

① دورة النوم: يمكن أن يؤثر الإفراط في الألعاب الإلكترونية على دورة نومك؛ فقد يجعلك ذلك متحفزًا ويمنعك من النوم.
② إجهاد العين.  ③ الصداع. ④ مشكلات الظهر: نتيجة الانحناء لفترات طويلة أثناء اللعب.
⑤ زيادة الوزن: نتيجة عدم ممارسة الرياضة أو عدم اتباع عادات الأكل السليمة أثناء اللعب.

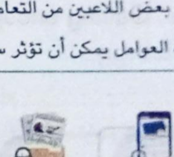
2 Psychological Dangers المخاطر النفسية

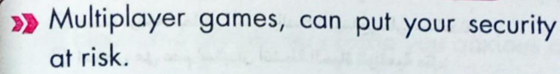
1. You may become anxious and depressed because:
   a. You feel lonely in the real world.
   b. You are being bullied online.
2. It can make some people aggressive because some games promote violence.

3. It can prevent some players from thinking rationally when facing situations.

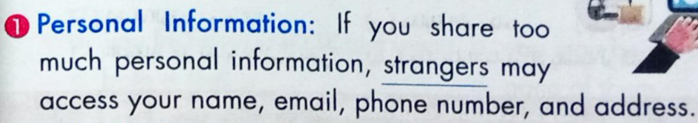
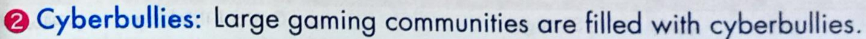
» All of these factors can negatively affect your relationship with family and friends.

① قد تُصاب بالقلق والاكتئاب وذلك:
(أ) نتيجة شعورك بالوحدة في العالم الواقعي. (ب) نتيجة تعرضك للتنمُّر عبر الإنترنت.
② قد تجعل بعض الأشخاص عدوانيين: لأن بعض الألعاب تشجع على العنف.
③ قد تمنع بعض اللاعبين من التعامل مع المواقف بعقلانية.
» كل هذه العوامل يمكن أن تؤثر سلبًا على علاقتك مع العائلة والأصدقاء.

3 Security Dangers المخاطر الأمنية




» Multiplayer games, can put your security at risk.


1. **Personal Information:** If you share too much personal information, strangers may access your name, email, phone number, and address.

2. **Cyberbullies:** Large gaming communities are filled with cyberbullies.
3. **Hackers and viruses:** Hackers can leak your information, and viruses are easily spread.

» قد تُعرِّض الألعاب متعددة اللاعبين أمنك للخطر:
① المعلومات الشخصية: إذا شاركت الكثير من معلوماتك الشخصية، فقد تسمح للغرباء بالوصول إلى اسمك وعنوان بريدك الإلكتروني ورقم هاتفك وعنوانك.
② التنمر الإلكتروني: تمتلئ مجتمعات الألعاب الإلكترونية الكبيرة بالمتنمرين الإلكترونيين.
③ القراصنة والفيروسات: يمكن للقراصنة تسريب معلوماتك، وبالتالي تنتشر الفيروسات بسهولة.

Responsible Gaming ممارسة الألعاب الإلكترونية بمسئولية

How to limit the dangers of electronic games?

1. Only play games and chat with people you know and trust.
2. Don't use personal information in your usernames and passwords.
3. Don't use a webcam.
4. Accept limits that your parents set to prevent unhealthy gaming habits.
5. When you face dangers, tell your parents. They want to help you.
6. Make sure that gaming does not replace real-life activities like:
   - a. Spending time with your family.
   - b. Meeting friends.
   - c. Homework
   - d. Maintaining a healthy diet.
   - e. Getting enough exercise or sleep.

كيف تحد من مخاطر الألعاب الإلكترونية؟

1. العبْ الألعاب الإلكترونية وتحدث مع الأشخاص الذين تعرفهم وتثق بهم فقط.
2. لا تستخدم معلوماتك الشخصية في اسم المستخدم وكلمة المرور.
3. لا تستخدم كاميرا الويب.
4. احترم الحدود التي يضعها والديك لتفادي العادات السيئة الخاصة بلعب الألعاب الإلكترونية.
5. عندما تواجه مخاطر، أخبر والديك، فهما يريدان مساعدتك.
6. احرص على عدم استبدال أنشطة الحياة الواقعية مثل:
   - (أ) قضاء الوقت مع عائلتك.
   - (ب) مقابلة الأصدقاء.
   - (جـ) إنجاز الواجبات المنزلية.
   - (د) الحفاظ على نظام غذائي صحي.
   - (هـ) ممارسة التمارين الرياضية أو النوم.

أهم الكلمات والمصطلحات

Electronic games	الألعاب الإلكترونية	Stranger	غريب	Critical thinking	
Encourage	يشجع	Hunched	منحنٍ	Impact	
Sleep cycle	دورة النوم	Eye strain	إرهاق العين	Develop	
Promote	يعزز	Rationally	بعقلانية	Prevent	
Stimulate	يحفز	Limits	حدود	Security	
Affect	يؤثر	Encounter	يواجه أو يقابل	Leak	
Weight gaining	زيادة الوزن	Supervision	إشراف	Multiplayers	
Cyberbullies	المتنمرون عبر الإنترنت	Creative thinking	التفكير الإبداعي	Anxious	
Depressed	مكتئب	Leaked	تسريب	Maintaining	
Negatively	سلبيًا	Discussions	مناقشات		

Exercises on Lesson 2

1 Choose the correct answer:

1. .... can promote critical and creative thinking.
   a. Violence b. Electronic games c. Information d. Danger (الإسكندرية – وسط 2024)
2. Playing electronic games too much can affect your .... cycle.
   a. sleep b. digestive c. eating d. exercise
3. There are several disadvantages of electronic games, like ....
   a. psychological danger b. facial recognition c. finger print d. all of them (الجيزة – الشيخ زايد 2024)
4. Some games promote violence, so this can make some people ....
   a. calm b. lazy c. stupid d. aggressive
5. One of the physical dangers of electronic games is ....
   a. feeling lonely b. headaches c. stealing data d. cyber bullying (البحيرة دمنهور 2024)
6. Electronic games may make you anxious and depressed because ....
   a. you feel lonely in the real world b. you may being bullied online c. both a and b d. none of them
7. Electronic games can strain your .... and cause headaches.
   a. Hand b. eyes c. legs d. face (القاهرة – عين شمس 2024)
8. Large gaming communities are filled with ....
   a. cyberbullies b. doctors c. teachers d. none of them
9. Good electronic games help .... (أبناؤنا في الخارج 2024)
   a. enhance creative thinking b. disorganization c. non-cooperation d. individual work

10. Hackers can steal your information and .... can easily sprea
    a. videos b. books c. security d. viruses
11. Real life activities, such as .... should not be replaced w
    electronic games. (2024 أسيوط
    a. good sleep b. bullies c. strangers d. online search
12. The impact on your sleep cycle is one of the .... of electroni
    games.
    a. security dangers b. physical danger
    c. psychological dangers d. all of them
13. One of the advantages of online multiplayer games that friends share i
    that they are ....
    a. entertaining b. not effective in team work
    c. traditional d. boring (أبناؤنا في الخارج)
14. One of the Psychological dangers of electronic games is ....
    a. eye strain b. being depressed
    c. cyberbullying d. headache
15. Electronic games can be a lot of fun, but there can be problems of
    playing these games like .... (المنوفية-السادات)
    a. cyberbullying b. hacking c. entertainment d. both a and b
16. You should .... that your parents set to prevent unhealthy
    gaming habits.
    a. pirates b. leak information
    c. accept limits d. share
17. One of the dangers of electronic games is .... because you
    may not be exercising.
    a. hacking b. gaining weight
    c. bullying d. violence
18. You should not share .... because others can access your
    address, email, and phone number.
    a. games b. news
    c. personal information d. jokes

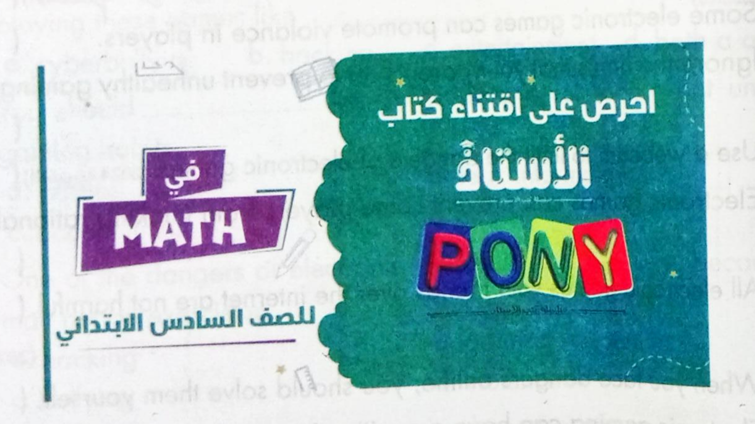
2 Put (✓) or (✗):

1. There are no dangers while playing electronic games. (   )
2. Electronic games can be fun, but they impact health. (الإسكندرية - شرق 2024) (   )
3. Playing too often can affect your sleep cycle. Which hinders your ability to sleep. (الإسكندرية - منتزه ثان 2024) (   )
4. Feeling lonely in the real world is one of the dangers of electronic games. (   )
5. Electronic games can strain your hand. (الإسكندرية العجمي 2024) (   )
6. Excessive electronic gaming can lead to headaches. (   )
7. Electronic games can make some people anxious and depressed. (القاهرة الجديدة 2024) (   )
8. It is recommended to play games and chat with people you don't know. (   )
9. Multiplayer electronic games in particular can put your security at risk. (الإسكندرية - برج العرب 2024) (   )
10. Some electronic games can promote violance in players. (   )
11. Ignore the limits that your parents set to prevent unhealthy gaming habits. (   )
12. Use a webcam to limit the dangers of electronic games. (القليوبية 2024) (   )
13. Electronic games can prevent some players from thinking rationally. (   )
14. All electronic games with friends over the internet are not harmful. (   ) (أسيوط 2024)
15. When you face dangers online, you should solve them yourself. (   )
16. Electronic gaming can have a positive impact on your relationships with others. (   )
17. Care must be taken to not replace real-life activities with electronic games. (الإسماعيلية 2024) (   )

Complete the missing parts using the words between the brackets:

(eyes - Back problems- webcam - Cyberbullies - personal information)

1. .... is one of the security dangers of electronic games. (البحيرة-دمنهور 2024)
2. .... are one of the dangers of electronic games because you stay hunched over while playing.
3. Electronic games can strain your .... and cause headaches. (الغربية 2024)
4. Don't use a .... to limit the dangers of electronic games.
5. Don't share ...., such as your name, email, phone number, and address.



Test Yourself on Lessons 1&2

1 Choose the correct answer:

1. Electronic games help to promote critical and creative ....
   a. fun b. thinking c. playing d. books
   (المنوفية- شبين الكوم 2024)
2. 🔒 .... can measure the speed of objects.
   a. Thermometers b. Satellites c. Radars d. GPS
3. Spending a lot of time playing electronic games can cause ....
   a. eye strain b. back problems c. intelligence d. both a and b
4. Electronic games can strain your .... and cause headaches.
   a. hand b. arm c. eyes d. leg (الدقهلية 2024)
5. 🔒 .... is writing down the names of sources you used in your report.
   a. Opinions b. Citations c. Assumptions d. None of them
6. The physical dangers of playing electronic games causes ....
   a. depressed b. back problems c. aggressive d. bullied online (الإسكندرية – شرق 2024)
7. .... can cause your information to be leaked and viruses are easily spread.
   a. Cyberbullies b. Hackers c. Friends d. Security

2 Put (✓) or (X):

1. There are many dangers from electronic games like security dangers. ( ) (الإسكندرية – وسط 2024)
2. The dangers of electronic games include anxiety, depression. ( )
3. You should play a lot of electronic games to fall asleep right away. ( )
4. 🔒 Ms. El-Behaedi uses remote sensing in her work. ( ) (دمياط 2024)
5. Electronic games can strain your hand. ( )
6. Electronic games negatively affect your relationship with family and friends. ( )
7. Don't use webcam to limit the dangers of electronic games. ( )
8. 🔒 Ms. El-Behaedi doesn't backup data frequently. ( )

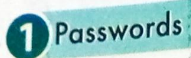
Lesson 3 Protecting Yourself From Digital Theft

» It is irresponsible to leave your devices at risk by not taking proper precautions.

» Let's look at some more ways you can effectively protect your devices from theft.

عدم المسئولية أن تَترُك أجهزتك الخاصة مُعرَّضة للخطر بعدم اتخاذ إجراءات الأمان المناسبة.
نظرة على المزيد من طرق حماية أجهزتك من السرقة بشكل فعَّال.

1 Passwords





» Passwords with at least 8 random letters, numbers, and symbols are the most secure.

ات المرور التي تتكوَّن من: ٨ حروف، وأرقام، ورموز عشوائية أو أكثر، هي الأكثر أمانًا.

2 Multi-Factor Authentication (MFA)



» MFA requires at least two ways of identifying yourself.

» It is usually through passwords, pins, and security codes, or personal questions.

• تتطلَّب المصادقة مُتعدِّدة العوامل طريقتين على الأقل لتحديد هُويَّتك، وعادةً ما يتم ذلك من خلال: كلمات المرور، وأرقام التعريف الشخصية، ورموز الأمان أو الأسئلة الشخصية.

3 Fingerprint Authentication



» This type of authentication will scan your finger, as a way of confirming it's you.

• **المصادقة ببصمة الأصابع:** هذا النوع من المصادقة سيُجري مسحًا لإصبعك، كطريقة لتأكيد هُويَّتك.

4 Facial Recognition



» Facial recognition software will scan your face using your device's camera.

» Only your user's face can be used to open their devices or devices' apps.

• برنامج التعرُّف على الوجه سيُجري مسحًا لوجهك باستخدام الكاميرا الخاصة بك.

• يمكن فقط استخدام وجه المستخدم لفتح أجهزته أو تطبيقات أجهزته.

5 Full Encryption



» Encryption protects your information so only you can access it on your device, as long as you have set your password.

• يقوم التشفير بحماية معلوماتك بحيث لا يتمكن أحد سواك من الوصول إليها على جهازك، طالما قمت بإنشاء كلمة مرور خاصة بك.

Data Protection Law in Egypt

» Companies are in particular need of protecting their websites and their customers' information.

» Egypt has introduced the Data Protection Law to protect its citizens.

« تحتاج الشركات إلى حماية مواقعها الإلكترونية ومعلومات عملائها.

« أنشأت مصر قانون حماية البيانات الشخصية لحماية مواطنيها.

1 Companies

» Data protection law requires companies to use strict security stands to protect their data.

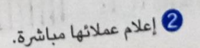
» If they've been victims of data theft:

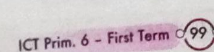
1. Companies must report immediately
2. Let their customers know immediately.

« القانون يُلزم الشركات أن تستخدم معايير أمنية صارمة لحماية بياناتهم.

« **إذا وقعت الشركات ضحية لسرقة البيانات فإنه يجب عليها:**

1. الإبلاغ على الفور.
2. إعلام عملائها مباشرة.





2 Individuals

- Individuals should report data theft too.
- If you think your data has been compromised:
  1. Tell a parent or trusted adult, they can let the proper authorit[ies] know.
  2. Tell the family and friends you communicate with online.

يجب على الأفراد الإبلاغ عن سرقة البيانات أيضًا.

إذا شككت بتعرُّض بياناتك للخطر:

1. أخبر أحد الوالدين أو شخصًا بالغًا موثوقًا به؛ بحيث يمكنه إبلاغ السلطات المختصة.
2. أخبر أفراد أسرتك وأصدقاءك الذين تتواصل معهم عبر الإنترنت.

DATA PROTECTION

أهم الكلمات والمصطلحات

Random	عشوائي	Security codes	...وز الأمان
Identifying yourself	تحديد هويتك	Safety precautions	...باطات السلامة
Strict	صارم	Data Protection	...اية البيانات
Victims	ضحايا	Law	...نون
Compromised	تعرُّض لخطر الاختراق	Proper authorities	...لطات المسئولة
Immediately	فورًا	Data theft	...رقة البيانات

Exercises on Lesson 3

1 Choose the correct answer:

1. It is preferable for passwords to contain at least .... characters.
   a. five b. eight c. three d. four

   (أبناؤنا في الخارج 2024)

2. What does MFA stand for?
   a. Multi-Function Application
   b. Multi-Flavor Avocado
   c. Multi-Feature Algorithm
   d. Multi-Factor Authentication

3. MFA requires at least .... ways of identifying yourself.
   a. two b. three c. eight d. four

   (المنوفية – تلا 2024)

4. The authentication type that scans your finger as a way of confirming it's you, is ....
   a. face recognition b. MFA c. fingerprint d. self access

   (الإسكندرية – وسط 2024)

5. Data protection law requires companies to use strict .... to protect their data
   a. procedures
   b. steps
   c. security stands
   d. browsers

6. One of the best secure methods to confirm your identity is to ....
   a. write the name of your school
   b. fingerprint authentication
   c. type the name
   d. write the date of birth

   (أبناؤنا في الخارج 2024)

7. Which of the following is NOT typically used in MFA?
   a. Passwords
   b. PINs
   c. Security codes
   d. Voice recognition

8. The software that scans your face using your device's camera is ....
   a. Fingerprint
   b. Password
   c. Multi-Factor
   d. Facial Recognition

   (الإسكندرية – شرق 2024)

9 .... protects your information so only you can access it on your de[vice]

a. Decryption b. Compression c. Encryption d. Firewall

10 .... requires at least two ways of identifying yourself.

a. Multi-Factor Authentication b. Fingerprint authentication

c. Facial recognition d. Full encryption (2024 متفرقة أول –...)

11 Facial recognition scans your face using your device's .... to confirm your identity.

a. speaker b. printer c. camera d. micropho[ne]

12 .... Requires companies to use strict security stands to p[rotect] their data

a. Full Encryption b. Voice recognition

c. Data Protection Law d. I-Stem platform (2024 ...لية)

13 Fingerprint authentication usually scans your ....

a. eye b. face c. finger d. palm

14 Full encryption protects ....

a. only passwords b. only files

c. all information d. only footprint

15 What must companies do if they're victims of data theft?

a. Report immediately b. Inform customers immediately

c. Wait for a week d. Both a and b

2 Put (✓) or (✗):

1 Strong passwords contain at least 6 characters. ( )

2 If you have been exposed to data theft, you should report it. ( )

3 MFA requires at least two ways of identifying yourself. ( )

(...دمنهور 2024)

4 Encryption allows anyone to access your information on your device ( )

5 MFA can confirm your identity through PINs and personal questions ( )

6 Data protection is important for only individuals. (الجيزة – الشيخ زايد 2024) ( )

7 Fingerprint authentication scan your face using the device's camera. ( )

8 It is responsible to leave your devices at risk without protection. ( )

(القاهرة الجديدة 2024)

9 It is not important for companies to protect their customers' information.

(القليوبية 2024) ( )

10 When creating a password, you must use letters only. ( )

(الإسكندرية – وسط 2024)

11 The facial recognition feature allows only your face to unlock your device. ( )

12 Fingerprint authentication is a type of authentication confirming it's you.

(الإسكندرية – وسط 2024) ( )

13 Multi-factor authentication (MFA) is not an effective way to protect your accounts. ( )

14 Egypt established the Data Protection Law to protect its citizens. ( )

15 If they've been victims of data theft, there is no need to report the theft. ( )

3 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 Encryption	a. is a type of authentication that scan your finger to confirm your identity.
2 Multi-factor authentication	b. requires companies to use strict security stands to protect their data.
3 Fingerprint authentication	c. requires at least two ways of identifying yourself.
4 Data protection law	d. scan your face using your device's camera to confirm your identity.
5 Facial recognition	e. protects your information and can only be accessed if you enter a password.

1 .... 2 .... 3 .... 4 .... 5 ....



November Exam on Lessons (7-8, ...

1 Choose the correct answer:

1. Instructions to a computer are given in the form of ....
   a. Word file b. code c. video d. audio
2. Good electronic games help .... (الخارج 2024)
   a. enhance creative thinking b. disorganization c. non-cooperation d. individual work
3. One of the following tags is false .... (2024
   a. <i> </i> b. <a> c.   d. <h1> </h
4. Programming languages are usually ....
   a. closed-source b. open-source c. proprietary d. expensive
5. .... scans your face using the device's camera to confirm your ide
   a. Fingerprint authentication b. Facial recognition c. Full encryption d. MFA (الجديدة 2024
6. .... can cause your information to be leaked and viruses easily spread.
   a. Cyberbullies b. Friends c. Parents d. Hackers
7. Adding .... to images helps people with visual impairme
   a. borders b. colors c. alt-text d. animations

2 Put (✓) or (✗):

1. iOS uses closed-source software. (الإسكندرية – منتزه ثان 2024) (   )
2. Multiplayer electronic games are full of cyberbullies. (   )
3. HTML is a programming language for creating web pages. (   ) (2024
4. There are several drawbacks to electronic games, such as security (أسيوط 2024) (   )
5. MFA requires one way of identifying yourself. (   )
6. Electronic games can strain your hand. (دمياط 2024) (   )
7. ROS is open-source software for building robot apps. (   )
8. Strong passwords protect your devices from theft. (الإسكندرية – وسط 2024) (   )

Lesson 4 Cyber Security

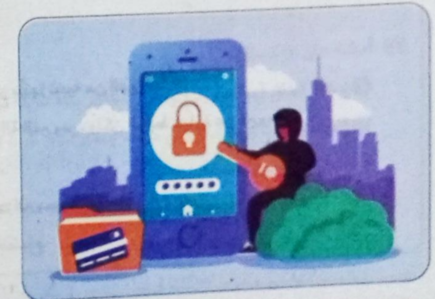
» You have learned a lot about online safety choices and strategies. Here is a brief recap.

1. Use safe web browsers.
2. Install anti-virus protection on your devices.
3. Only allow friends and family to view your social media.
4. Do not communicate with people you don't know or who make you feel uncomfortable.
5. Do not share your personal information online.
6. Use strong passwords and change them every three months.
7. Verify websites that you frequent are real, safe, and age-appropriate.
8. Verify the information you find to make sure it is accurate.

« لقد تعلمت الكثير عن إجراءات الأمان على الإنترنت وإستراتيجياته. فيما يلي مراجعة سريعة:

1. استخدِم متصفحات الإنترنت الآمنة.
2. استخدِم برامج الحماية من الفيروسات على أجهزتك.
3. حافظ على خصوصية صفحاتك، اسمح فقط لأصدقائك وأسرتك برؤية صفحات التواصل الاجتماعي الخاصة بك.
4. لا تتواصل مع الأشخاص الذين لا تعرفهم أو الذين يجعلونك تشعر بعدم الارتياح.
5. لا تشارك معلوماتك الشخصية على الإنترنت.
6. استخدم كلمات مرور قوية وغيِّرها كل ثلاثة أشهر.
7. تأكَّد من أن المواقع التي تتردد عليها حقيقية، وآمنة، ومناسبة لعمرك.
8. تحقَّق من المعلومات التي تجدها للتأكد من دقتها.





- These previous precautions are all examples of cyber security.

الاحتياطات السابقة كلها أمثلة على الأمن السيبراني.

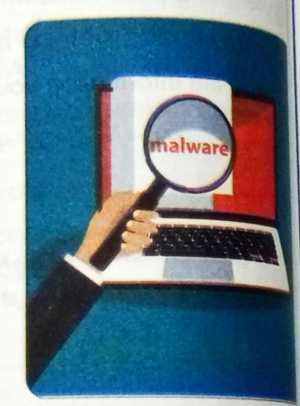
Cybersecurity الأمن السيبراني

It is the protection of systems, networks, devices, and data from electro[nic] attacks that they may be subjected to when using information and communication technology applications.

حماية الأنظمة والشبكات والأجهزة والبيانات من الهجمات الإلكترونية التي قد تتعرض لها عند استخدام تطبيقات تكنولوجيا المعلومات والاتصالات

Types of Cyber Security Threats

1 Malware



- This is the greatest cyber security threat.
- Scareware is a type of malware that pretends to be a virus alert.
- Scareware tells you to click on the link to help remove it, but the link is a virus.
- Mobile malware is problematic.
- Unsecured Wi-Fi networks can expose you to malware threats.
- Note: No matter how cautious you are, you may still get tricked.

البرمجيات الخبيثة:

- البرمجيات الخبيثة أكبر تهديد للأمن السيبراني.
- برمجية التخويف هو نوع من البرمجيات الخبيثة التي تتظاهر بأنها تنبيه من الفيروسات.
- برمجية التخويف يطلب منك النقر على الرابط للمساعدة في إزالة الفيروس، ولكن الرابط عبارة عن فيروس.
- يمكن أن تكون البرمجيات الخبيثة على الأجهزة المحمولة مشكلة.
- يؤدي استخدام شبكة Wi-Fi غير آمنة إلى تعريضك لتهديدات البرمجيات الخبيثة.
- ملحوظة: بغض النظر عن مدى حذرك، ربما ما زلت تتعرض للخداع.



2 Spoofing



- **Spoofing:** Cyber criminals pretended to be a business or a known person, in order to trick you to:
  1. Provide your information, or
  2. Click on an unsafe link.

انتحال الصفة: يتظاهر مجرمو الإنترنت بأنهم شركة أو شخصية مشهورة لخداعك من أجل:

1. إفشاء معلوماتك الشخصية أو
2. النقر على روابط غير آمنة.

If you click on unsafe links, you are in danger of:

1. Having your information compromised.
2. Money stolen.
3. Viruses are installed on your devices.

إذا نقرت على روابط غير آمنة، فأنت في خطر:

1. تعرُّض معلوماتك لخطر الاختراق.
2. سرقة أموالك.
3. تثبيت الفيروسات على أجهزتك.

Examples of spoofing:

1. A fake domain pretending to be a business.
2. A fake email account that has the name of a trusted service.
3. Personal acquaintances of yours.

أمثلة على الانتحال:

1. إنشاء نطاق (موقع ويب) وهمي يتظاهر بأنه شركة تجارية.
2. إنشاء حساب بريد إلكتروني مزيف يحمل اسم خدمة موثوقة.
3. أفراد تعرفهم شخصيًا.



How to deal with cyber security threats

- Stay calm, but take **swift** action.
- Inform your contacts immediately so they can avoid opening anythi[ng] suspicious, so you can protect your contacts from the same cyber threa[t].
- Use **anti-virus** to do a sweep of your computer and remove any viruse[s].
- Confirm your **security settings** are up-to-date.
- Change all your passwords, your device password, email, soci[al] media, etc. even if you have been hacked only on one particul[ar] account.
- Report the threat to a trusted adult. They can report it to an intern[et] service provider or get the authorities involved if needed.
- Creating a **personal online safety plan** can prepare you for potenti[al] future cyber threats, such as how to protect your personal devices [and] information from cyber criminals.

حافظ على هدوئك، ولكن اتخذ إجراءً سريعًا.

أبلغ جهات الاتصال الخاصة بك على الفور حتى يتمكنوا من تجنُّب فتح أي شيء مشبوه؛ حتى تتمكن من حمايتهم من نفس التهديد السيبراني.

استخدم برنامج مكافحة الفيروسات لإجراء مسح لجهاز الكمبيوتر الخاص بك وإزالة أي فيروسات.

تأكد من تحديث إعدادات الأمان الخاصة بك.

قم بتغيير جميع كلمات المرور الخاصة بك: كلمة مرور جهازك، والبريد الإلكتروني، ووسائل التواصل الاجتماعي، وما إلى ذلك، حتى لو تم اختراقك على حساب واحد فقط.

أبلغ شخصًا بالغًا موثوقًا به بالتهديد؛ حتى يتمكن من الإبلاغ عن ذلك إلى مزود خدمة الإنترنت، أو إشراك السلطات إذا لزم الأمر.

وضع خطة للأمان الشخصي عبر الإنترنت يمكن أن تؤهلك لمواجهة التهديدات السيبرانية المستقبلية المحتملة، مثل كيفية حماية أجهزتك الشخصية ومعلوماتك من مجرمي الإنترنت.

أهم الكلمات والمصطلحات

Appropriate	مناسب	Frequently	متكررة
Precautions	احتياطات	Accurate	
Verify	يتحقق	Threats	
Problematic	إشكالية - مشكلة	Cautious	
Get tricked	يُخدع	Remove	
Link	رابط	Fake	
Criminals	مجرمون	Swift action	سريعة
Acquaintance of yours	معارفك	Suspicious	

Exercises on Lesson 4

1 Choose the correct answer:

1. Use .... software to do a sweep of your computer and remove any viruses. (القاهرة - عين شمس 2024)
   a. passwords b. antivirus c. browsers d. scareware

2. Verify the information you find to make sure it is ....
   a. accurate b. false c. untrusted d. biased

3. .... is defined as protecting systems, networks, devices, and data from electronic attacks.
   a. Cyber security b. Digital footprint
   c. Dangerous electronic games d. Piracy (الإسكندرية-برج العرب 2024)

4. Verify that the websites that you frequent are ....
   a. real b. safe
   c. age appropriate d. all of them (الإسكندرية - وسط 2024)

5. One of the safety precautions you must follow when using the internet is to ....
   a. use untrusted websites
   b. use short and predicted password
   c. tell your family about any risks you may face
   d. accept all friend requests (أبناؤنا في الخارج 2024)

6. If you are exposed to cyber security threat, you should .... it.
   a. ignore b. accept c. report d. share (القاهرة الجديدة 2024)

7. A fake domain pretending to be a business or an email account that has the name of a trusted service is an example of .... (الإسكندرية - وسط 2024)
   a. maleware b. spoofing c. antivirus d. scareware

8 .... are types of cyber threats. (الوقفية – تلا 2024)
a. Malware b. Spoofing c. Both of them d. None of them

9 .... is a type of malware that pretends to be a virus alert.
a. Virus b. Firewall c. Sweepstake d. Scareware

10 It is preferable to change your passwords every .... months.
a. eight b. six c. three d. none of them

(البانوا في الخارج 2024)

11 .... are cyber criminals who pretend to be a business, or a known person to trick you.
a. Maleware b. Hackers c. Spoofing d. Scareware

12 To deal with cyber security threats, stay calm, but take a .... action.
a. slow b. swift c. calm d. delayed

13 .... is the greatest cyber security threat. (القليوبية 2024)
a. Malware b. Antivirus c. Firewall d. Phishing

14 Using .... is/are important for cyber security.
a. antivirus b. strong passwords
c. safe web browsers d. all of them

15 After a threat, you should update ....
a. calendar b. apps c. security settings d. web browsers

2 Put (✓) or (✗):

1 Cyber security is the protection of systems and networks from electronic attacks (السويس2024) ( )

2 It is safe to click on unknown links ( )

3 Your personal information must be shared through social media platforms (السويس2024) ( )

4 You should install anti-virus to protect your device. ( )

5 Scareware and impersonation are considered types of cyber threats (الإسكندرية – برج العرب 2024) ( )

6 Spoofing is the greatest cyber security threat. ( )

7 For online safety precautions, change your password every 3 months. (أسيوط 2024) ( )

8 Scareware tells you to click on the link to remove it, but the link is a virus ( )

9 It is not important that you report the threats to a trusted adult. ( )

10 unsecured Wi-Fi can expose you to malware threats. (الدقهلية 2024) ( )

11 Malware means that cyber criminals pretend to be a business. (الإسكندرية – شرق 2024) ( )

12 Scareware is a type of malware that pretends to be a virus alert. ( )

13 You can limit the dangers you are exposed to by only playing games and chatting with people you don't know and don't trust. ( )

14 To be safe online, you should use safe web browsers. (الإسكندرية – منتزه أول 2024) ( )

15 You should ensure your security settings are up-to-date. ( )

16 If your account has been hacked, it is preferable to change the password of this account only. ( )

3 Write the scientific term:

1 The greatest cyber security threat. ( )

2 A type of malware that pretends to be a virus alert. ( )

3 Cyber criminals pretended to be a business or a known person, in order to trick you. ( )

4 It is used to do a sweep of your computer and remove any viruses. ( )

Test Yourself on Lessons 3&4

1 Choose the correct answer:

1. Cyber security is .... of systems, networks, devices, and data
   a. protection b. threat c. destruction d. piracy (2024 الإسماعيلية)
2. Multi-factor authentication requires at least .... (2024 أسيوط)
   a. three methods b. two methods c. one method d. none of them
3. Scareware is considered ....
   a. real virus alert b. fake virus alert
   c. antivirus software d. Wi-Fi threat
4. Your .... should have at least eight random characters.
   a. fingerprints b. encryption c. password d. email (2024 الغربية)
5. What's spoofing?
   a. Password cracking b. Malware
   c. Impersonation d. Virus
6. Allow only .... to see your social media pages.
   a. friends and family b. unknown people
   c. bullies d. hackers (2024 أسيوط)
7. .... will scan your face using your device's camera.
   a. Facial recognition b. Fingerprint
   c. MFA d. Encryption (2024 القاهرة – عين شمس)

2 Put (✓) or (✗):

1. Malware is the greatest cyber security threat. (2024 الغربية) ( )
2. Only companies can be victims of data theft. ( )
3. Strong passwords protect your devices from theft. (2024 الإسكندرية – وسط) ( )
4. Mobile malware is problematic. ( )
5. MFA stands for Multi-Factor Authentication. (2024 القاهرة – عين شمس) ( )
6. Companies must use strict security stands to protect their data. ( )
7. You can share personal information online. (2024 الإسكندرية – وسط) ( )
8. Cybersecurity is the protection of only your devices from risks. ( )

Lesson 5 Copyright and Electronic Financial Trading

Copyright (Intellectual Property Rights)

- Intellectual property refers to someone's invention, creation, or idea that is protected by law from being copied by others, such as an individual or a business.
- الملكية الفكرية: تشير إلى اختراع أو ابتكار أو فكرة شخص ما يحميها القانون من أن ينسخها الآخرون كفرد معين أو شركة.

Copyright includes:

1. Written material
2. Visual content
3. Audios
4. Videos
5. Web material

- تشمل حقوق الطبع والنشر: المواد المكتوبة والمرئية والسمعية، ومقاطع الفيديو، والمواد من شبكة الإنترنت.

Creative Commons

- It refers to work that has been granted permission to share by the creator.
- المشاع الإبداعي: يشير إلى الأعمال التي تم منح مُبتكرها الإذن بمشاركتها.

NOTES:

- Works in data libraries such as the Egyptian Knowledge Bank (EKB) is already approved for use.
- Egypt considers works to be in the public domain if the creator has been deceased for at least 50 years. No creator permission is required.
- الأعمال الموجودة في مكتبات البيانات -مثل بنك المعرفة المصري- تمَّت الموافقة على استخدامها.
- تَعتَبِر مصر الأعمال ملكية عامة إذا كان المؤلف متوفيًا منذ ٥٠ عامًا على الأقل، وهذه لا تحتاج إذنًا من المبدع.

Stock Exchange and E-trading البورصة والتداول الإلكتروني

A Stock Exchange

- It is a market where buyers and sellers deal in units of company stocks.
- These stocks are called shares.
- البورصة: هي سوق يتعامل فيه البائعون والمشترون في وحدات من أسهم الشركة.
- تُسمى هذه الأسهم حِصَصًا.

» The Egyptian stock exchange allows citizens to invest in any market sector, such as:

❶ Food ❷ Clothing ❸ Petroleum

• تسمح البورصة المصرية للمواطنين بالاستثمار في أي قطاع من قطاعات السوق، مثل:

❶ الغذاء. ❷ الملابس. ❸ البترول.



How do smart investors make decisions?

كيف يتخذ المستثمرون الأذكياء القرارات؟

❶ **Research:** Smart investors will research multiple companies before deciding which one to invest in.

❷ **Market Analysis:** They analyze markets to see which companies' stocks go up or down.

❸ **Evaluate:** They also check the products or services offered to see if they're a good fit for their interests and goals.

❶ **البحث:** يبحث المستثمرون الأذكياء عن شركات متعددة قبل تحديد الشركة التي يستثمرون فيها.

❷ **تحليل السوق:** فهم يقومون بتحليل الأسواق لمعرفة تقلبات أسهم الشركات.

❸ **التقييم:** هم يقومون أيضًا بفحص المنتجات أو الخدمات المقدمة؛ لمعرفة مدى توافقها مع اهتماماتهم وأهدافهم الاستثمارية.

Traditional vs. Electronic Trading

التجارة التقليدية مقابل التجارة الإلكترونية

» In traditional settings, an investor will have a broker.

• في الأوضاع التقليدية، يعتمد المستثمر على وسيط.

A broker:

It's a person who handles the buying and selling of shares.

• **الوسيط:** هو الشخص الذي يتولى شراء وبيع الأسهم.

Electronic Financial Trading (E-Trading) التداول الإلكتروني

» E-trading has made the process of buying and selling shares more efficient.

» E-trading provides the investor with more authority.

» With the spread of the internet, electronic trading platforms are now common places.

» E-trading allows the investor to:

❶ Make trades on their own through websites or applications.

❷ Use a broker if they want

❸ Allow more independence and user-friendly options such as robo-advisors.

• التداول المالي الإلكتروني جعل عملية بيع وشراء الأسهم أكثر كفاءة. • يُوفر التداول الإلكتروني للمستثمر المزيد من السُلطة.

• مع انتشار الإنترنت، أصبحت منصات التداول الإلكترونية شائعة الآن.

• يسمح التداول المالي الإلكتروني للمستثمر بالآتي:

❶ إجراء الصفقات بنفسه من خلال المواقع الإلكترونية أو التطبيقات.

❷ استخدام وسيط إذا رغب في ذلك.

❸ إتاحة المزيد من الاستقلالية وبدائل سهلة الاستخدام مثل روبوتات الاستشارة.

Robo-advisors

» They're online applications that provide financial guidance and services.

• **روبوتات الاستشارة:** هي تطبيقات عبر الإنترنت تُوفر التوجيه والخدمات المالية.

Benefits of E-Trading:

E-trading provides:

❶ Access to more people who might not be able to invest.

❷ Easier and faster trading between companies, no matter where they are located.

• **فوائد التداول الإلكتروني:**

يوفر التداول الإلكتروني: ❶ الوصول إلى عدد أكبر من الأشخاص الذين قد لا يتمكنون من الاستثمار.

❷ تنفيذ الصفقات بشكل أسهل وأسرع بين الشركات، بغض النظر عن مكان تواجدها.

أهم الكلمات والمصطلحات

Creative Commons	المشاع الإبداعي	Independence	استقلالية	Virtual market	سوق افتراضي
Creator	مبتكر	Authority	سلطة	Investor	مستثمر
Buyer	مشتر	Broker	وسيط	Traditional settings	البيئات التقليدية
Seller	بائع	Granted permission	منح الإذن	Trades	صفقات
Company stocks	أسهم الشركة	Public	عام	Guidance	توجيه
Options	بدائل – خيارات	Market sector	قطاع السوق	Efficient	كفء
User-friendly	سهل الاستخدام				

Exercises on Lesson 5

1 Choose the correct answer:

1. .... is someone's invention, creation, or idea that is protected by law from being copied by someone else, such as an individual or a business. (الإسكندرية – منتزه ثان2024)
   a. Intellectual property b. Electronic right
   c. Electronic trading d. Public domain
2. Books whose authors have been deceased for 50 years are ....
   a. copyrighted b. in public domain
   c. creative commons d. none of them (القليوبية 2024)
3. .... refers to works for which the creator has granted permission for sharing.
   a. Digital footprint b. Impersonate
   c. Cyber security d. Creative Commons (أبناؤنا في الخارج 2024)
4. .... is a market where buyers and sellers deal in units of company stocks.
   a. Online shopping b. Stock exchange
   c. Supermarket d. Copyright (القاهرة الجديدة 2024)
5. .... allow(s) investors to make trades on their own through websites or applications.
   a. Brokers b. E-trading c. Robo-advisors d. None of them
6. .... is an online application that provides inquiries, guidance, and financial services to customers. (الإسكندرية – برج العرب 2024)
   a. Stock broker b. Robo-advisor
   c. Stock exchange d. Financial trading
7. In stock exchange, stocks are called ....
   a. money b. shares
   c. e-commerce d. bonds
8. .... is a person who handles the buying and selling of shares.
   a. A broker b. A robo-advisor
   c. A scanner d. IAN
9. .... has made the process of buying and selling shares more efficient. (دمياط 2024)
   a. E-learning b. E-trading c. Stock exchange d. Robo-advisor
10. Copyright includes written and .... materials. (المنيا 2024)
    a. visual b. audio c. video d. all of them
11. In traditional settings, a stock investor will have a/an ....
    a. broker b. bank teller c. instructor d. hacker
12. Egypt considers works to be in the public domain if the creator has been deceased for at least ....
    a. 5 months b. 50 months c. 5 years d. 50 years
13. Smart investors .... the company before investing in it.
    a. research b. buy c. sell d. invest
14. .... are NOT covered by copyright.
    a. Books b. Websites
    c. Public domain works d. Audio recordings

2 Put (✓) or (✗):

1. Copyright includes only written material. (الإسكندرية – شرق 2024) ( )
2. Intellectual property rights protect someone's invention or creation from being copied by others. ( )
3. A stock exchange is a market where buyers and sellers deal in units of company stocks. (الإسكندرية – وسط 2024) ( )
4. Materials in the Egyptian Knowledge Bank (EKB) need permission for use. ( )
5. Copyright includes books, music, and videos only. (القاهرة الجديدة 2024) ( )
6. Creative Commons refers to works that the creator has granted permission to share. ( )

7 No creator permission is required if the creator has been deceased for at least 50 years. (دمياط 2024) ( )

8 The Egyptian stock exchange allows citizens to invest in any market sector. ( )

9 Robo-advisors are human financial experts. ( )

10 Smart investors invest in the first company they find without doing research. ( )

11 Electronic financial trading hinders the speed of performing investment activities over the internet. (الإسكندرية – برج العرب 2024) ( )

12 E-trading allows more independence for investors. ( )

13 Investors should check the products or services offered by a company before investing. ( )

14 The internet helps electronic trading platforms become common places. ( )

15 Smart investors do not analyze markets before making investments. ( )

16 Investors should research multiple companies before investing. ( )

17 Electronic trading platforms are rare in modern markets. ( )

18 E-trading allows faster transactions between companies. ( )

3 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 Robo-advisors	a. made the process of buying and selling shares more efficient.
2 E-trading	b. is a person who handles the buying and selling of shares.
3 A stock exchange	c. are online applications that provide financial guidance and services.
4 A broker	d. includes written, visual, audio, video, and web materials.
5 Copyright	e. is a market where buyers and sellers deal in units of company stocks.

1 .... 2 .... 3 .... 4 .... 5 ....

Lesson 6 Cloud Storage of Files

Cloud Computing

» It is the on-demand **storage** and **access** of data and programs via **remote servers** on the internet.

• الحوسبة السحابية: هي تقنية متوفرة عند الطلب تُستخدم لتخزين البيانات والبرامج والوصول إليها عبر خوادم بعيدة على الإنترنت.

Remote Servers

» They connect users who are not on the local area network (LAN) to access and manage data, files, and applications via the internet.

• الخوادم البعيدة: تقوم بتمكين المستخدمين غير المتصلين بالشبكة المحلية (LAN) من الوصول إلى البيانات والملفات والتطبيقات وإدارتها عبر الإنترنت.

» Cloud computing enables users to access files and data easily and conveniently from anywhere and at any time.

• الحوسبة السحابية: تُمكّن المستخدمين من الوصول إلى الملفات والبيانات بسهولة ويُسر من أي مكان وفي أي وقت.

Examples of Cloud Computing:

1 Microsoft 365	2 Google
» With its application OneDrive	» With its application Google Drive

The Advantages and Disadvantages of Cloud Computing



Advantages

1. It frees up space on your devices by using cloud storage services.
2. It allows you to log in and access your files from multiple devices, as long as you have an internet service.
3. It provides a backup for your files.
4. It provides an extra layer of security by offering password-protected data storage and data encryption.
5. It allows you to directly share files with authorized users.

مزايا الحوسبة السحابية:

1. تقوم بتوفير مساحة على أجهزتك عن طريق استخدام خدمات التخزين السحابية.
2. تسمح لك بتسجيل الدخول والوصول إلى ملفاتك من أجهزة متعددة، طالما أن لديك خدمة الإنترنت.
3. توفر نسخة احتياطية للفاتك.
4. توفر طبقة إضافية من الأمان من خلال خاصية تخزين البيانات المحمية بكلمة مرور وتشفير البيانات.
5. تسمح لك بمشاركة الملفات مباشرة مع المستخدمين المعتمدين.



Disadvantages

1. It requires you to have an internet connection. If you lose your internet connection, you won't be able to access files that are only stored in the cloud.
2. Cloud storage is often a fee-based service. If you want to store files, you will need to pay a fee.
   - The more storage you require, the higher the fee you will pay.
3. If the cloud service you are using is a victim of a data breach, you may become a victim as well, as your information may be compromised.
   - However, while there is a small risk, cloud services are overall extremely safe and secure.

عيوب الحوسبة السحابية:

1. تتطلَّب أن يكون لديك اتصال بالإنترنت، فإذا فقدت اتصالك بالإنترنت، فلن تتمكَّن من الوصول إلى الملفات المُخزَّنة فقط في السحابة.
2. غالبًا ما يكون التخزين السحابي خدمة مقابل رسوم، فإذا كنت ترغب في تخزين الملفات، فسوف تحتاج إلى دفع رسوم. وكلما زادت سعة التخزين التي تحتاجها، زادت الرسوم التي ستدفعها.
3. إذا كانت الخدمة السحابية التي تستخدمها ضحية لاختراق البيانات، فقد تصبح أنت أيضًا ضحية؛ حيث قد تتعرَّض معلوماتك للخطر، وبالرغم من وجود خطر بسيط، إلا أن الخدمات السحابية آمنة للغاية بشكل عام.

Data Encryption

It converts data into a code to prevent unauthorized user access.

- **تشفير البيانات:** تقوم بتحويل البيانات إلى رمز لمنع الوصول غير المصرح به للمستخدم.

Data Breach

It occurs when unauthorized parties gain access to confidential data and information.

اختراق البيانات: يحدث عندما تتمكَّن أطراف غير مصرح لها من الوصول إلى البيانات والمعلومات السرية.

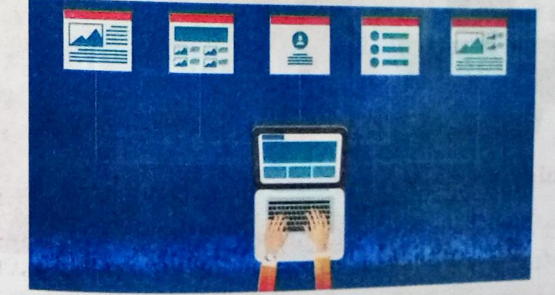
Storing Files in the Cloud تخزين الملفات في السحابة

» Having a document management system allows you to organize your documents so they are quick and easy to find. Here are some tips:

1. Create separate folders for different types of data like:
   a. photos b. videos c. audio files d. documents
2. Separate school and personal information, with one folder for each.
3. Label folders and subfolders clearly, so it's easy to find what you are looking for.
4. Consider keeping separate folders depending on the file type, such as videos, photos, audio files, and text documents.

- **يتيح لك نظام إدارة المستندات تنظيم مستنداتك بحيث يسهل عليك العثور عليها. إليك بعض النصائح:**

1. أنشئ مجلدات منفصلة لأنواع مختلفة من البيانات مثل الصور ومقاطع الفيديو وملفات الصوت والمستندات.
2. افصل بين المعلومات المدرسية والمعلومات الشخصية، مع تخصيص مجلد لكل منهما.
3. قم بتسمية المجلدات والمجلدات الفرعية بوضوح، بحيث يسهل عليك العثور على ما تبحث عنه.
4. ضع في اعتبارك الاحتفاظ بمجلدات منفصلة حسب نوع الملف، مثل مقاطع الفيديو والصور وملفات الصوت والمستندات النصية.



Security Measures الاحتياطات الأمنية

1. Create strong passwords for files and have security measures in place.
2. Use a strong password for any account you have on a cloud storage platform.
3. Use Multi-Factor Authentication (MFA) for additional security.
   - All the large and reputable cloud storage services offer MFA.

1. أنشئ كلمات مرور قوية للملفات، واتخذ الإجراءات الأمنية اللازمة.
2. استخدم كلمة مرور قوية لأي حساب لديك على منصة التخزين السحابية.
3. استخدم المصادقة متعددة العوامل (MFA) لمزيد من الأمان.
   - تقدم جميع خدمات التخزين السحابية الكبيرة وذات السمعة الطيبة المصادقة متعددة العوامل (MFA).

أهم الكلمات والمصطلحات

Remote servers	الخوادم البعيدة	On-demand	عند الطلب
Manage	يدير	Platforms	منصات
Space	مساحة	Layer	طبقة
Compromised	معرضة لخطر الاختراق	Storage	تخزين
Data breach	اختراق البيانات	Multiple	متعدد
Free up	يُخلي	Fee-based service	خدمة مدفوعة الأجر
Occur	يحدث	Separate	منفصل
Authorized users	مستخدمون مصرح بهم	Organize	ينظم
Reputable	سمعة طيبة		



Exercises on Lesson 6



1 Choose the correct answer:

1. The on-demand storage and access of data and programs via remote servers on the internet is ....
   a. data encryption b. artificial intelligence
   c. cloud computing d. server
   (الإسكندرية - منتزه ثان 2024)

2. .... connects users who are not on the LAN to access and manage data, files, and applications via the internet.
   a. A remote server b. OneDrive
   c. Microsoft 365 d. None of them

3. .... converts data into a code to prevent unauthorized user access.
   a. Data breach b. A cloud
   c. Data encryption d. A server
   (المنوفية - تلا 2024)

4. Cloud storage is often a .... service.
   a. free-based b. fee-based
   c. limited-based d. none of them

5. .... provides a backup for your files.
   a. A web browser b. A search engine
   c. Social media d. Cloud computing
   (القليوبية 2024)

6. Remote servers connect users via ....
   a. LAN b. the internet c. Bluetooth d. a satellite

7. .... is considered an example of cloud computing.
   a. Google Drive b. Facebook c. WhatsApp d. YouTube
   (الإسماعيلية 2024)

8. A disadvantage of cloud computing is ....
   a. the limited storage b. the internet dependency
   c. the slow processing d. that there is no file sharing

9 Saving a backup copy of your files is one of the ....
a. cloud computing advantages
b. cloud disadvantages
c. cloud computing disadvantages
d. none of them (كندرية – وسط 2024)

10 .... is the Microsoft 365 storage application. (اهرة الجديدة 2024)
a. Google Drive
b. OneDrive
c. Outlook
d. Teams

11 .... occurs when unauthorized parties gain access confidential data and information.
a. Data breach
b. Data theft
c. Data encryption
d. MFA

12 One of the advantages of using cloud computing is ....
a. that it's not a free service
b. that it needs an internet connecti
c. data breach
d. that it provides a backup (كندرية – منتزه أول 2024)

13 .... allows you to directly share files with authorized users.
a. Cloud computing
b. Social media
c. A web browser
d. None of them

14 .... provides an extra layer of security by offering passwo protected data storage and data encryption.
a. Cloud computing
b. Shopping
c. A remote server
d. Downloading (اهرة - الزيتون ٢٠٢٤)

15 The more cloud storage you require, the .... the fee you will p
a. higher
b. lower
c. same
d. constant

16 Cloud services are overall ....
a. untrusted
b. safe
c. secure
d. both b and c

17 All the large and reputable cloud storage services offer ....
a. free huge storage
b. limited storage
c. MFA
d. data breach

18 The document management system helps ....
a. edit files
b. create backups
c. organize documents
d. increase storage

2 Put (✓) or (✗):

1 Cloud computing enables users to access files and data from anywhere at any time. (الإسكندرية – شرق 2024) ( )
2 OneDrive and Google Chrome are examples of cloud computing. ( )
3 Cloud storage services are always free. ( )
4 Remote servers connect users who are using printers to access and manage data, files, and applications via the internet. (قنا 2024) ( )
5 Cloud computing is a way to store files and data on a remote server and access them over the internet. ( )
6 Cloud computing does not provide backup copies of your files. ( ) (السويس 2024)
7 Be sure to create a strong password for your files on the computing cloud. ( )
8 OneDrive is a cloud computing service by Google. ( )
9 OneDrive can't help you share work with your friends. (الدقهلية 2024) ( )
10 Data encryption converts data into a code to prevent unauthorized access. ( )
11 For easy work on the computer, create separate folders for different types of data. (البحيرة – الدلنجات 2024) ( )
12 Despite a small risk, cloud services are overall extremely safe and secure. ( )
13 When using cloud computing, an internet connection is not required. (الإسكندرية – برج العرب 2024) ( )
14 Document management systems hinder file organization. ( )
15 Multi-factor Authentication decreases cloud security. ( )
16 A data breach occurs when unauthorized parties gain access to confidential data and information. ( )

Theme 2

3 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 Remote servers	a. occurs when unauthorized parties gain access to confidential data.
2 Data breach	b. is an example of cloud computing.
3 Data encryption	c. connect users who are not on LAN to access and manage data, files, and applications via the interne
4 Goggle Drive	d. is often a fee-based service.
5 Cloud storage	e. converts data into a code to prevent unauthorized user access.

1 .... 2 .... 3 .... 4 .... 5 ....



Test Yourself on Lessons 5&6

1 Choose the correct answer:

1. Intellectual property is a ....
   a. public domain work
   b. protected creation
   c. type of document
   d. free-use material
2. .... is/are (an) example(s) of cloud computing.
   a. Google Drive
   b. OneDrive
   c. Google
   d. Both a and b
3. .... refers to work that has been granted permission to share by the creator.
   a. Creative Commons
   b. Copyright
   c. Financial trading
   d. Hacking
4. .... is a cloud computing provider. (المنوفية - تلا 2024)
   a. Windows
   b. Facebook
   c. Microsoft 365
   d. Firefox
5. .... are online applications that provide financial guidance and services.
   a. Robo-advisors
   b. Brokers
   c. Investors
   d. Hackers
6. .... converts data into a code to prevent unauthorized user access.
   a. Copy
   b. Paste
   c. Data encryption
   d. A hacker
7. .... is a market where buyers and sellers deal in company stocks.
   a. A stock exchange
   b. A supermarket
   c. E-commerce
   d. none of them

2 Put (✓) or (✗):

1. Cloud computing requires an internet connection. ( )
2. Cloud storage is often a fee-based service. (القاهرة - عين شمس 2024) ( )
3. Stock exchanges only deal with food sector shares. ( )
4. An internet connection is unnecessary for cloud access. ( )
5. File access in cloud computing is limited to one device. ( )
6. Creative Commons material requires no permission to use. ( )
7. It's recommended to mix personal and school files in one folder. ( )
8. Brokers are essential for all stock trading. ( )

Lesson 7 Cloud Computing Applications

» Microsoft 365™ and Google Workspace™ are the most popular software for cloud computing applications.

» Both platforms include productivity apps and storage.

Microsoft 365 Suite

» Microsoft 365 offers a whole suite of productivity apps, including:

1. **Microsoft Teams:** For communication and virtual meetings.
2. **Word:** For writing documents.
3. **Excel:** For creating tables and graphs.
4. **PowerPoint:** For creating presentations.
5. **Outlook:** An email platform.
6. **OneDrive:** A storage and sharing application.

Microsoft Word



» When you select Microsoft Word, it opens a new blank document.

» It allows you to draft ideas, a story, or an assignment.

OneDrive



» It allows you to store, share, and access files from any device.

» It can help you share work with your friends.

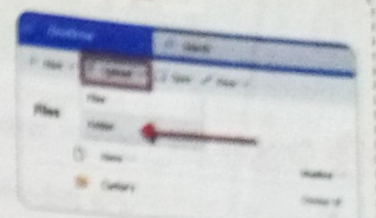
» It's very user-friendly.

» You upload your files and then click on the Share option to share them with others.

» You can decide the level of access for each person you share with (view only or editing).

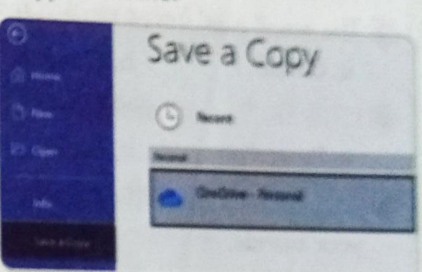
How to upload files or folders to OneDrive:

1. In Chrome,
   - Sign in to Microsoft Office.
   - Select OneDrive.
2. Select Upload >> Files, or Upload >> Folder.
3. Select the file or folder you want to upload.
4. Select Open or Select Folder.



How to save a file to OneDrive:

1. Select File >> Save a Copy > OneDrive – Personal/Company.
2. Select Enter file name here and type a name.
3. Select Save.
4. You will then see the file in your OneDrive the next time you open the Office app.



أهم الكلمات والمصطلحات

Email platform	منصة البريد الإلكتروني	Productivity	إنتاجية
Whole suite	مجموعة كاملة	Allow	يسمح
Draft	مسودة	Assignment	تكليف
Option	اختيار		

Exercises on Lesson 7

1 Choose the correct answer:

1. .... is a technology that enables the storage of data and software and access to them through the internet. (أبناؤنا في الخارج 2024)
   a. Cloud computing b. Programming
   c. Operating system d. Database

2. .... is/are the most popular software that deal(s) with cloud computing applications. (الإسكندرية – وسط 2024)
   a. Excel™ b. PowerPoint™
   c. Google Workspace d. All of them

3. The email platform of Microsoft 365 is ....
   a. Gmail b. Outlook c. Teams d. OneDrive

4. .... is used to help you write down your schoolwork. (أسيوط 2024)
   a. PowerPoint b. Excel c. MS Teams d. Word

5. .... is a Microsoft program that can help you share work with your friends. (القليوبية 2024)
   a. Word b. Outlook c. PowerPoint d. OneDrive

6. We use .... to create presentations. (الدقهلية 2024)
   a. MS Teams b. Word c. PowerPoint d. Excel

7. The storage application in Microsoft 365 is named .... (الإسكندرية – شرق 2024)
   a. OneDrive b. Word c. Excel d. PowerPoint

8. .... app is used to browse mailing lists. (الجيزة – الشيخ زايد 2024)
   a. Microsoft Teams b. Microsoft Word
   c. Microsoft Outlook d. Microsoft OneDrive

9. When you choose ...., it opens a blank document that allows you to draft your ideas. (المنوفية – تلا 2024)
   a. Outlook b. PowerPoint c. Word d. Excel

10. To ... then select Save a Copy.
    a. File b. Insert c. Edit d. View

11. To upload files or folders to OneDrive, select ....
    a. Upload b. Save As c. Download d. Share

12. After uploading your files on OneDrive, you can click on the .... option to share a file with your friends. (الإسكندرية – منتزه أول 2024)
    a. Download b. Open c. Share d. Save

13. OneDrive is mainly used for ....
    a. file storage b. file sharing c. file access d. all of them

14. .... Is/are the most popular software that deal(s) with cloud computing applications.
    a. Microsoft 365 b. Google Workspace
    c. Facebook d. Both a and b

15. Microsoft 365 suite includes ....
    a. Word b. Teams c. Outlook d. all of them

16. OneDrive allows file access from ....
    a. one device b. two devices
    c. three devices d. many devices

2 Put (✓) or (✗):

1. Cloud computing is storing and accessing data or programs through the internet. (الجيزة 2024) ( )
2. Microsoft 365™ is one of the most popular software that deals with cloud computing applications. (بورسعيد 2024) ( )
3. OneDrive allows you to store, share, and access files from any device. (الإسكندرية – منتزه ثان 2024) ( )
4. OneDrive is a Google Workspace storage application. ( )
5. When using OneDrive, you upload your files and then click on the Share option to share with others. (السويس 2024) ( )

6. To access OneDrive, users must have a Microsoft account. ( )
7. Using the Word program, you can draft ideas, a story, or an assignment. (القليوبية 2024) ( )
8. OneDrive is complicated and difficult to use. ( )
9. Microsoft 365™ platform provides everything you need. ( )
10. The files saved in OneDrive are only accessible from the device they were saved on. (القاهرة – حلوان 2024) ( )
11. PowerPoint is used to create blank documents. (الدقهلية – بلقاس 2024) ( )
12. OneDrive is used for file storage and cannot be used for file sharing. ( )
13. To upload files or folders to OneDrive, you need to sign in to Microsoft Office first. ( )
14. OneDrive allows users to set different access levels for shared files. ( )



Model Exam 1

1 Choose the correct answer:

1. The remote sensors are special .... placed on satellites, drones, or towers.
   a. cameras b. computers c. microphones d. sonar
2. Playing electronic games too much can affect your .... cycle.
   a. sleep b. energy c. eye d. head
3. .... is the greatest cyber security threat. (القليوبية 2024)
   a. OIS b. Windows c. Spoofing d. Malware
4. A/An .... is a person who handles the buying and selling of shares. (دمياط 2024)
   a. scanner b. advisor c. broker d. merchant
5. .... is the protection of systems, networks, devices, and data from electronic attacks. (الإسكندرية – منتزه أول 2024)
   a. Cyber security b. Malware c. Scareware d. Spoofing
6. The advantages of using cloud computing include ....
   a. internet dependency b. data breach
   c. data backup d. none of them
7. .... is a Microsoft program that can help you create a presentation.
   a. PowerPoint b. Word c. Paint d. OneDrive

2 Put (✓) or (✗):

1. Facial Recognition will scan your face using your device's printer. ( )
2. Gaining weight is one of electronic games advantages. ( )
3. Spoofing means converting data into a code to prevent unauthorized user access. ( )

4. Remote servers connect users who are not on the LAN to access and manage data via the internet. (الجيزة – الشيخ زايد 2024) ( )
5. Copyright law protects printed and digital content. ( )
6. MFA requires at least three ways of identifying yourself. ( )
7. Data breach converts data into a code to prevent unauthorized user access. (الإسكندرية – وسط 2024) ( )
8. The Microsoft 365 email platform is Outlook. ( )

Model Exam 2

1 Choose the correct answer:

1. Through the ...., you can legally protect your invention or ideas. (أبناؤنا في الخارج 2024)
   a. digital footprint b. piracy
   c. scanner d. intellectual property
2. .... is a type of malware that pretends to be a virus alert.
   a. Antivirus b. Firewall c. Scareware d. Cloud computing
3. .... scans your face using the device's camera to confirm your identity. (القاهرة الجديدة 2024)
   a. Fingerprint authentication b. Facial recognition
   c. Full encryption d. MFA
4. .... is open-source software used for building robot applications. (الإسكندرية – وسط 2024)
   a. Windows b. ROS c. Microsoft Word d. None of them
5. Cloud storage is often a .... service.
   a. stolen-based b. fee-based c. free-based d. none of them
6. .... is one of the cloud computing application. (المنوفية – تلا 2024)
   a. OneDrive b. One c. Drive d. Excel
7. .... is the on-demand storage and access of data and programs via remote servers on the internet.
   a. Microsoft 365 b. Microsoft Teams
   c. Cloud computing d. Data encryption

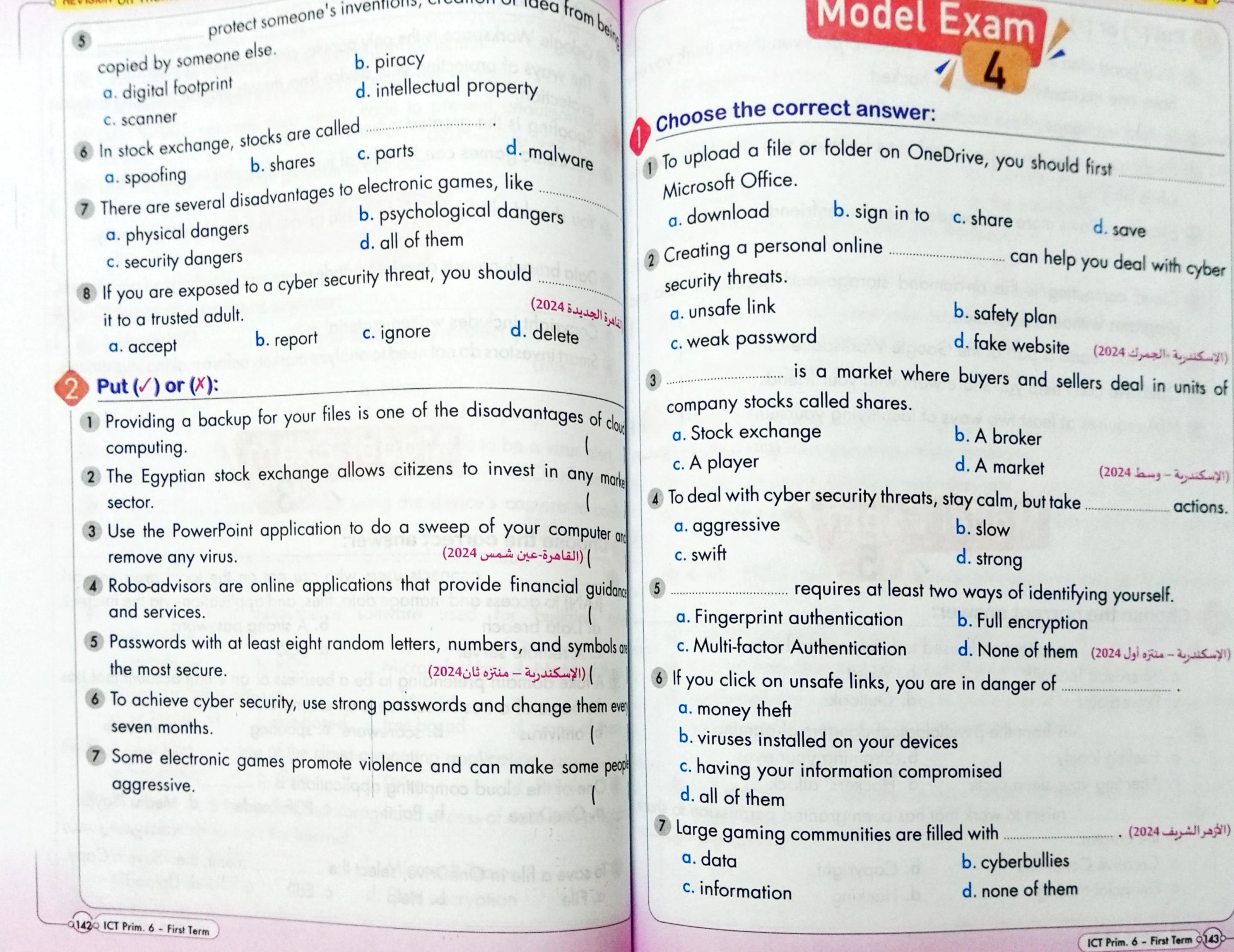
2 Put (✓) or (✗):

1. Google Workspace is the only popular cloud computing platform. ( )
2. The ways of protecting your device from threats include installing antivirus protection. (المنيا 2024) ( )
3. Spoofing is the greatest cyber security threat. ( )
4. Electronic games can be a lot of fun, but they can impact health. ( )
5. You should play a lot of electronic games to fall asleep right away. ( )
6. Data breach coverts data into a code to prevent unauthorized user access. ( )
7. Copyright includes written material only. (دمياط 2024) ( )
8. Smart investors do not need to analyze markets before making investments. ( )

Model Exam 3

1 Choose the correct answer:

1. .... connects users who are not on the local area network (LAN) to access and manage data, files, and applications via the internet.
   a. Data breach b. A strong password
   c. A remote server d. ROS
2. A fake domain pretending to be a business or an email account that has the name of a trusted service is an example of .... (الإسكندرية – وسط 2024)
   a. antivirus b. scareware c. spoofing d. maleware
3. One of the cloud computing applications is .... (أبناؤنا في الخارج 2024)
   a. OneDrive b. Paint c. PDF Reader d. Media Player
4. To save a file in OneDrive, select the .... menu, then Save a Copy.
   a. File b. Help c. Edit d. Upload



5 .... protect someone's inventions, creation of idea from being copied by someone else.

a. digital footprint
b. piracy
c. scanner
d. intellectual property

6 In stock exchange, stocks are called ....

a. spoofing
b. shares
c. parts
d. malware

7 There are several disadvantages to electronic games, like ....

a. physical dangers
b. psychological dangers
c. security dangers
d. all of them

8 If you are exposed to a cyber security threat, you should .... it to a trusted adult. (القاهرة الجديدة 2024)

a. accept
b. report
c. ignore
d. delete

2 Put (✓) or (✗):

1 Providing a backup for your files is one of the disadvantages of cloud computing. ( )

2 The Egyptian stock exchange allows citizens to invest in any market sector. ( )

3 Use the PowerPoint application to do a sweep of your computer and remove any virus. (القاهرة-عين شمس 2024) ( )

4 Robo-advisors are online applications that provide financial guidance and services. ( )

5 Passwords with at least eight random letters, numbers, and symbols are the most secure. (الإسكندرية – منتزه ثان2024) ( )

6 To achieve cyber security, use strong passwords and change them every seven months. ( )

7 Some electronic games promote violence and can make some people aggressive. ( )

Model Exam 4

1 Choose the correct answer:

1 To upload a file or folder on OneDrive, you should first .... Microsoft Office.

a. download
b. sign in to
c. share
d. save

2 Creating a personal online .... can help you deal with cyber security threats.

a. unsafe link
b. safety plan
c. weak password
d. fake website (الإسكندرية -الجمرك 2024)

3 .... is a market where buyers and sellers deal in units of company stocks called shares.

a. Stock exchange
b. A broker
c. A player
d. A market (الإسكندرية – وسط 2024)

4 To deal with cyber security threats, stay calm, but take .... actions.

a. aggressive
b. slow
c. swift
d. strong

5 .... requires at least two ways of identifying yourself.

a. Fingerprint authentication
b. Full encryption
c. Multi-factor Authentication
d. None of them (الإسكندرية – منتزه أول 2024)

6 If you click on unsafe links, you are in danger of ....

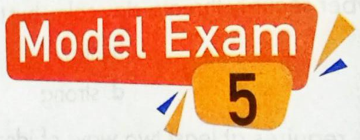
a. money theft
b. viruses installed on your devices
c. having your information compromised
d. all of them

7 Large gaming communities are filled with .... (الأزهر الشريف 2024)

a. data
b. cyberbullies
c. information
d. none of them

2 Put (✓) or (✗):

1. It's a good idea to change all your passwords, even if you think you only have one account that has been hacked. (الجيزة-العجوزة 2024) ( )
2. In stock exchange, these stocks are called shares. ( )
3. Electronic games cause back problems because you stay hunched over while playing. ( )
4. E-trading allows more independence and user-friendly options. ( ) (الأزهر الشريف 2024)
5. Cloud computing is the on-demand storage and access of data and programs without the internet. ( )
6. Microsoft Teams is part of the Google Workspace suite. ( )
7. OneDrive can't help you share work with your friends. ( )
8. MFA requires at least two ways of identifying yourself. ( ) (الإسكندرية - برج العرب 2024)



1 Choose the correct answer:

1. .... application is used to browse email lists.
   a. Microsoft Teams™ b. Word
   c. PowerPoint d. Outlook
2. .... is from the psychological dangers of gaming.
   a. Feeling lonely b. Straining your eyes
   c. Affecting your sleep cycle d. Hackers' attack
3. .... refers to work that has been granted permission to share by the creator. (الإسكندرية - منتزه أول 2024)
   a. Creative Commons b. Copyright
   c. Financial trading d. Hacking
4. Ms.El-Behaedi has excavated several archaeological sites in ....
   a. the United States b. France
   c. Egypt d. all of them
5. One of the most popular programs for managing cloud computing applications is .... (أبناؤنا في الخارج 2024)
   a. Paint b. Google Workspace
   c. WordPad d. the calculator
6. Verify that the websites that you frequent are ....
   a. real b. safe
   c. age appropriate d. all of them
7. .... will scan your face using your device's camera.
   a. Fingerprint authentication b. PIN
   c. Facial recognition d. MFA

2 Put (✓) or (✗):

1. Electronic games can cause back problems. ( )
2. Copyright doesn't include web materials. (الإسكندرية - وسط 2024) ( )
3. Companies must report immediately if they've been victims of data theft. ( )
4. Ms. El-Behaedi installs antivirus software to protect her information. ( )
5. Online games can't impact your health. (الأزهر الشريف 2024) ( )
6. It is not important that you report the threats to a trusted adult. ( )
7. Verifying information you find to make sure it is inaccurate is one of the safety precautions when dealing with the internet. ( ) (القاهرة-عين شمس 2024)
8. Full encryption protects your information, so everyone can access it on their device. ( )

Final Exams



1

1 Choose the correct answer:

1. .... is a virtual 3-D environment that allows users to explore and interact with the surroundings, as if it were reality.
   a. Virtual reality b. Artificial intelligence
   c. Augmented reality d. Assistive technology
2. .... scans your face using the device's camera to confirm your identity.
   a. Fingerprint authentication b. Facial recognition
   c. Full disk d. MFA
3. .... is an open-source operating system for mobile devices.
   a. Android b. iOS c. MacOS d. Windows
4. .... is the Microsoft 365 storage application.
   a. Google Drive b. One Drive c. Outlook d. MS Teams
5. If you are exposed to a cyber security threat, you should .... it.
   a. ignore b. accept c. report d. proceed
6. To make the text bold in HTML, you can use the .... tag.
   a. <i> b. <s> c. <strong> d. <a>
7. .... is a market where buyers and sellers deal in units of company stocks.
   a. Online shopping b. Stock exchange
   c. Supermarket d. A broker

2 Put (✓) or (✗):

1. Cloud storage services are always free. (   )
2. Routers work as gateways that connect your device to an ISP. (   )
3. It is responsible to leave your devices at risk without protection. (   )
4. Electronic games can make some people anxious and depressed. (   )
5. Copyright includes only books, music, and videos. (   )

6. In HTML, the <i> tag is used to display text in italics. ( )
7. Linux is the most popular operating system all over the world. ( )
8. Switches are used to connect computers to the ISP. ( )

2 محافظة القاهرة - إدارة عين شمس التعليمية 2024

1 Put (✓) or (✗):

1. Augmented reality can be done through mobiles and tablets. ( )
2. Android operating system is used in iPhone and iPad. ( )
3. Copyright includes written materials only. ( )
4. A library catalog is a database which includes all the items owned by a library. ( )
5. Cloud storage is often a fee-based service. ( )
6. MFA stands for Multi-Factor Authentication. ( )
7. There are no dangers while playing electronic games. ( )

2 Choose the correct answer:

1. .... helps people of determination.
   a. User experience b. Assistive technology
   c. Virtual reality d. Screen
2. Electronic games can strain your .... and cause headaches.
   a. hands b. eyes c. legs d. face
3. Users often wear a .... that blocks out the real world.
   a. mobile b. VR headset c. Wi-Fi d. mouse
4. The HTML tag <p>.....</p> refers to ....
   a. header b. italic text
   c. create a paragraph d. font
5. A .... converts the signal from the internet service provider into a digital signal.
   a. modem b. scanner c. keyboard d. screen

6. .... will scan your face using your device's camera.
   a. Facial recognition b. Fingerprint c. MFA d. Encryption
7. Use .... software to do a sweep of your computer and remove any viruses.
   a. antivirus b. browser c. website d. scareware
8. .... is/are collections of information which are typically stored in a computer system and can be accessed.
   a. Search engines b. Library catalogs
   c. Databases d. Google Chrome

3 محافظة الجيزة - إدارة الشيخ زايد التعليمية 2024

1 Choose the correct answer:

1. .... app is used to browse mailing lists.
   a. Microsoft Teams b. Microsoft Word
   c. Outlook d. OneDrive
2. There are several disadvantages of electronic games like ....
   a. psychological danger b. facial recognition
   c. finger print d. data encryption
3. The HTML tag <p>.....</p> refers to ....
   a. subheading b. create a paragraph
   c. largest heading d. creat a link
4. .... is open-source software used for building robot applications.
   a. iOS b. ROS c. MFA d. iOS

2 Put (✓) or (✗):

1. A modem sends data to a specific device over a network. ( )
2. MFA can confirm your identity through pins and personal questions. ( )
3. Smart gloves empower blind people to translate their signs to spoken or text output. ( )
4. Remote servers connect users who are not on LAN to access and manage data via the internet. ( )

3 Complete the missing parts using the words between the brackets:

(Library catalog - Cloud computing - Operating system - Copyright)

1. .... is a software that manage the computer's function.
2. .... is storing and accessing data or programs through the internet.
3. .... includes written, visual, audio, video, and web material.
4. .... is a database which includes all the items owned by a library.

4 Underline the right answer:

1. (Scareware - Virus) is a type of malware that pretends to be a virus alert.
2. (AR - AI) combines the real world with the virtual world by adding images using computers.
3. (</i>......</i> - <i>......</i>) is a correct tag.

4 محافظة الإسكندرية - إدارة شرق التعليمية 2024

1 Put (✓) or (✗):

1. A library catalog is a type of database that includes all items owned by a library. (   )
2. Malware means that the cyber criminals pretend to be a business. (   )
3. The Robot Operating System (ROS) is a closed source software. (   )
4. HTML is a standard programming language used to create webpages. (   )
5. Virtual reality combines the real world with a virtual world by adding images using computers. (   )
6. <Strong> is a tag used to write bold text on the webpage. (   )
7. Cloud computing enables users to access files and data from anywhere at any time. (   )
8. Smart gloves empower deaf people to translate their signs in real time to spoken or text output. (   )

2 Choose the correct answer:

1. The storage application in Microsoft 365 is named ....
   a. OneDrive b. Word c. Excel d. PowerPoint
2. The device that connects a local area network to the internet is called a ....
   a. switch b. computer c. modem d. mobile
3. To create a paragraph in the webpage use the tag ....
   a. <h1> b. <l> c. <font> d. <P>
4. A network that connects without wiring is named ....
   a. physical wiring b. wireless c. port d. cable
5. A closed operating system for iPhone and iPad is ....
   a. Apple iOS b. Windows c. Android d. Google
6. The software that scans your face using your device's camera is ....
   a. finger print b. password c. multi-factor d. facial recognition
7. The physical dangers of playing electronic games causes ....
   a. depression b. back problems c. aggressive d. bullied online

5 محافظة الإسكندرية - إدارة وسط التعليمية 2024

1 Put (✓) or (✗):

1. Egyptian Knowledge Bank (EKB) is an untrusted source of information. (   )
2. Virtual reality (VR) combines contents to the real world. (   )
3. There are many dangers from electronic games, like security dangers. (   )
4. Fingerprint authentication is a type of authentication confirming your identity. (   )
5. Wireless means connecting networks without wiring. (   )

6. The <h1>......</h1> tag refers to creating a paragraph. ( )
7. A stock exchange is a market where buyers and sellers deal in units of company stocks. ( )
8. When creating a password, you must use letters only. ( )
9. Author and journal title, can be used to widen a search range. ( )
10. The function of printers is to create a paper copy from a document. ( )

2 Choose the correct answer:

1. Saving a backup copy of your files is ....
   a. cloud computing advantages
   b. cloud disadvantages
   c. cloud computing disadvantages
   d. none of them
2. Verify that the websites that you frequent are ....
   a. real
   b. safe
   c. age appropriate
   d. all of them
3. .... is/are the device(s) that can be connected to internet.
   a. Desktop computer
   b. Laptop computer
   c. All of them
   d. None of them
4. .... is an open-source software used for building robot applications.
   a. Windows
   b. ROS operating system
   c. Microsoft Word
   d. None of them
5. Screen magnification software, hearing aids, and programs that turn speech to text and text to speech are examples of ....
   a. the last technology
   b. artificial technology
   c. assistive technology
   d. none of them

6 محافظة الإسكندرية - إدارة وسط التعليمية (نموذج2) 2024

1 Put (✓) or (✗):

1. Strong passwords protect your devices from theft. ( )
2. Wi-Fi wireless networks connect without wiring. ( )
3. Virtual reality can show a 3-D model of what the real world looks like. ( )
4. You can share personal information online. ( )
5. Switches send data to a specific device over a network, which makes connections easier and faster. ( )
6. Copyright doesn't include web material. ( )
7. Android is an open-source operating system. ( )
8. Data breach converts data into a code to prevent unauthorized user access. ( )

2 Choose the correct answer:

1. .... can promote critical and creative thinking.
   a. Violence
   b. Electronic games
   c. Information
   d. Danger
2. A .... helps people to search internet website based on the keywords.
   a. search engine
   b. database
   c. catalog
   d. library
3. .... is/are the most popular software that deals with cloud computing applications.
   a. Google Workspace
   b. PowerPoint™
   c. Excel™
   d. All of them
4. A fake domain pretending to be a business or an email account that has the name of a trusted service is an example of ....
   a. antivirus
   b. scareware
   c. spoofing
   d. maleware
5. .... is the standard programming language used to create web pages.
   a. Text
   b. Site
   c. Heading
   d. HTML

6 The authentication type that scans your finger as a way of confirming its you, is ....

a. face recognition b. MFA c. fingerprint d. self access

7 .... is a market where buyers and sellers deal in units of company stocks that called shares.

a. A stock exchange b. Broker
c. Player d. Market

7 محافظة الإسكندرية - إدارة المنتزه أول التعليمية 2024

1 Put (✓) or (✗):

1 Users often wear AR headsets that block out the real world. ( )

2 Switches don't send data to a specific device. ( )

3 You can use the library's web site on the internet. ( )

4 iOS uses close source software. ( )

5 Tags have four main parts. ( )

6 You can limit the dangers you are exposed to by playing games and chatting with people you don't know and don't trust. ( )

7 Malware is the greatest cyber security threat. ( )

2 Choose the correct answer:

1 .... describes how to use the product and interact with it.

a. User experiences b. VR
c. AI d. stocks

2 .... that empower deaf people to translate their signs in real time to spoken.

a. Screen readers b. Scanners
c. Smartgloves d. screen magnifier

3 The HTML Tag .... create hyperlink.

a. <1> b. <strong> c. <a> d. <link>

4 .... requires at least two ways of identifying yourself.

a. Fingerprint authentication b. Full Encryption
c. Multi-factor authentication d. Facial recognition

5 .... protection of systems, networks, devices, and data from electronic attacks.

a. Cyber security b. Malware c. Scareware d. Data breach

6 .... refers to the work that has been granted permission to share by the creator.

a. Creative commons b. Copyright
c. Financial trading d. None of them

7 To upload files and folder to OneDrive select ....

a. Upload b. Save As
c. Download d. Share

8 One of the advantages of using cloud computing is ....

a. it has no free service b. having an internet connection
c. that it provides a backup d. data breach

8 محافظة الإسكندرية - إدارة المنتزه ثان التعليمية 2024

1 Put (✓) or (✗):

1 Virtual reality is a virtual 3-D environment that allows users to explore and interact with their surroundings, as if it were reality. ( )

2 The EKB is an example of a general database that covers many subjects and is credible and accurate. ( )

3 The Robot Operating System (ROS) is a closed-source software used for building robot applications. ( )

4 HTML that language has an opening tag and a closing tag only. ( )

5 Playing electronic games too often can affect your sleep cycle. Which hinders your ability to sleep. ( ).

6 Passwords with at least eight random letters, numbers, and symbols are the most secure. ( )

7 OneDrive allows you to store, share, and access files from any device. ( )

2 Choose the correct answer:

1 Groups of devices or things that are connected to each other for a common purpose called ....
a. networks b. devices c. software d. ISP

2 The ability of the computer to think, learn, and deduce is ....
a. augmented reality (AR) b. virtual reality (VR)
c. artificial intelligence (AI) d. assistive technology

3 Technology helps people of determination, for example, screen magnification software, smartgloves called ....
a. information technology b. assistive technology
c. cutting-edge technology d. outdated technology

4 The software that manages a computer's functions, such as memory, drives ....
a. operating system. b. programming languages
c. input units d. CPU

5 The protection of systems, networks, devices, and data from electronic attacks called ....
a. data security b. cyber security
c. scareware d. data breach

6 .... is someone's invention, creation, or idea that is protected by law from being copied by someone else, such as an individual or a business .
a. Intellectual property b. Electronic rights
c. Electronic trading d. Creative commons

7 The on-demand storing, and accessing, of data and programs via remote servers on the internet ....
a. cloud computing b. artificial intelligence
c. server d. Full encryption

8 Combines the real world with a virtual world by adding images using computer ....
a. virtual reality (VR) b. augmented reality (AR)
c. assistive technology d. artificial intelligence

9 محافظة الإسكندرية - إدارة برج العرب التعليمية 2024

1 Put (✓) or (✗):

1 Artificial intelligence (AI) is the ability of a computer to think, learn and deduce. ( )

2 The Android operating system is a closed source mobile operating system. ( )

3 User experience describes how people use and interact with a product. ( )

4 Multiplayer electronic games in particular can put your security at risk. ( )

5 Electronic financial trading hinders the speed of performing investment activities over the Internet. ( )

6 Multi-factor authentication (MFA) requires at least two ways of identification. ( )

7 Scareware and impersonation are considered types of cyber threats. ( )

8 When using cloud computing, an Internet connection is not required. ( )

2 Choose the correct answer:

1 Through ...., you can transfer data with wires and cables.
a. wireless networks b. Wi-Fi
c. wired networks d. email

2 .... is used when copying, pasting, or cutting information
a. Digital editing tools b. QR code
c. Hyperlink d. Drawing tools

3 A visually impaired person can use .... to see his family members up close.
a. a scanner b. Braille
c. augmented Reality (AR) d. transformers

4 You can search for some books in the school library by..................
a. databases b. email
c. printer d. user Experience

5 .... gives commands to the computer in the form of code that can be used to create animation.
a. Assistive technology b. Programming languages
c. Databases d. Digital footprint

6 .... is defined as protecting systems, networks, devices, and data from electronic attacks
a. Cyber security b. Digital footprint
c. Dangerous electronic games d. Piracy

7 .... is an online application that provides inquiries, guidance, and financial services to customers.
a. Stockbrokers b. Robo-advisors
c. Stock exchange d. Financial trading

10 محافظة الإسماعيلية 2024

1 Choose the correct answer:

1 .... is considered an example of cloud computing.
a. Google Drive b. Facebook c. WhatsApp d. YouTube

2 The system .... is the most popular of the portable operating systems.
a. MacOS b. Windows c. Android d. ROS

3 Passwords consisting of 8 letters symbols and numbers are the most ....
a. security b. sharing c. trading d. breach

4 Cyber security is .... of systems, networks, devices and data.
a. protection b. threat c. destruction d. piracy

5 A .... sends data to a specific device over the network.
a. scanner b. speaker c. switch d. computer

2 Put (✓) or (✗):

1 The Library of Alexandria catalog is based on a database. ( )
2 The operating system prevents the user from communicating with the computer. ( )
3 The Egyptian Knowledge Bank can be used to search for the latest inventions. ( )
4 Artificial intelligence can be used to improve daily life. ( )
5 Care must be taken to not replace the real-life activities with electronic games. ( )

3 Complete the missing parts using the words between the brackets:

(Facial Recognition - HTML- Malware - Assistive Technology - Modem)

1 .... is the greatest cyber security threat.
2 .... converts the signal from the (ISP) into a digital signal.
3 .... is abbreviation of Hyper Text Markup Language.
4 .... software will scan your face using your device's camera.
5 .... helps people of determination, such as hearing aids.

11 محافظة أسيوط 2024

1 Put (✓) or (✗):

1 Computer networks connect computers together to share important information and data. ( )
2 All electronic games that friends play over the Internet are no harm in them. ( )
3 There is no difference between augmented reality and virtual reality. ( )
4 There are several drawbacks to electronic games, such as security risks. ( )
5 For online safety precautions: Change your password every 3 months. ( )

2 Choose the correct answer:

1. Multi-factor authentication requires at least ....
   a. three methods b. two methods
   c. one method d. none of them
2. Allow only .... to see your social media pages.
   a. friends and family b. unknown people
   c. bullies d. hackers
3. .... is used to help you write down your schoolwork.
   a. Word b. Excel c. PowerPoint d. Outlook
4. .... works on mimicking voices by providing it with a natural human tone.
   a. Programming b. Artificial intelligence
   c. Network d. Virtual reality
5. Real life activities, such as .... should not be replaced with electronic games.
   a. good sleep b. bullies c. strangers d. chatting
6. .... combines the real world and virtual reality by adding computer virtual generated images.
   a. Augmented reality b. Virtual reality
   c. Artificial intelligence d. Virtual assistant
7. Wired networks use wires and cables that are connected to opening in devices are called ....
   a. switches b. servers c. ports d. modems
8. .... is an example of a public database that covers various topics.
   a. Google b. Facebook
   c. Egyptian Knowledge Bank d. PowerPoint
9. .... uses a scan of your fingerprint, usually your thumb, to confirm your identity.
   a. Fingerprint authentication b. Enable lost mode
   c. Facial recognition d. multi-factor authentication
10. When searching in any database, it is preferable to use ....
    a. full sentences b. keywords
    c. symbols and numbers d. none of them

1 Put (✓) or (✗):

1. Artificial intelligence (AI) is the ability of the computer to think and learn. ( )
2. Android runs on mac devices. ( )
3. The tag <i> refers to emphasized text. ( )
4. It is not important that you report the threats to a trusted adult. ( )
5. OneDrive can't help you share work with your friends. ( )

2 Choose the correct answer:

1. A .... sends data to a specific device over a network.
   a. modem b. switch c. server d. none of them
2. The EKB results are credible and ....
   a. inaccurate b. narrow c. accurate d. unclear
3. Electronic games can strain your .... and cause headaches.
   a. hand b. arm c. eyes d. leg
4. A .... is a market where buyers and sellers deal in units of company stocks.
   a. supermarket b. stock exchange
   c. trade d. copyright
5. We use .... to create presentations.
   a. Microsoft Teams b. Word c. PowerPoint d. Excel

3 Complete the missing parts using the words between the brackets:

(tablet - Web browsers - Facial Recognition – encryption - Digital editing)

1. .... tools are used when copying, pasting, or cutting information.
2. .... read HTML documents and displays the content according to the HTML tags.
3. .... will scan your face using your device's camera
4. Data .... converts data into a code to prevent unauthorized users access.
5. Augmented reality can be done through a ....

13 محافظة السويس 2024

1 Put (✓) or (✗):

1. We should use the webcam when we play electronic games. ( )
2. Artificial intelligence (AI) is the computer's ability to think, learn, and deduce. ( )
3. A computer network connects computers to each other to share information. ( )
4. Copy, cut, and paste are word processing commands. ( )
5. Your personal information must be shared through social media platforms. ( )
6. Cloud computing does not provide backup copies of your files. ( )
7. An example of advanced technology is artificial intelligence. ( )
8. A modem is a device that connects a LAN to the Internet. ( )
9. Cyber security is the protection of systems and networks from electronic attacks. ( )
10. HTML is a programming language for creating web pages. ( )

2 Complete the missing parts using the words between the brackets:

(random codes - Cloud computing - Augmented reality - Operating system - Search engines)

1. .... help in searching for data on websites.
2. .... combines the real world with a virtual reality.
3. A password that contains .... is considered more secure.
4. .... is a program that manages computer programs and devices.
5. .... allows the user to access files anywhere easily.

14 محافظة الغربية 2024

1 Choose the correct answer:

1. A .... converts the signal from the internet service provider (ISP) into a digital signal.
   a. port b. switch c. modem d. server
2. .... can help people to search internet websites based on the keywords.
   a. Database b. Search engines c. Google Chrome d. library catalog
3. The HTML tag<h2>....</h2> refers to ....
   a. subheading b. smaller subheading c. large heading d. creating a paragraph
4. Augmented reality combines the real world with a/an .... world
   a. virtual b. artificial intelligence c. other d. none of them
5. Your .... should have at least eight random characters.
   a. fingerprints b. encryption c. password d. breach

2 Put (✓) or (✗):

1. Cutting-edge technology helps people of determination. ( )
2. The EKB results are credible and accurate. ( )
3. Windows is an operating system used on Apple PCs. ( )
4. The HTML tag <p>....</p>used to create hyperlinks. ( )
5. Malware is the greatest cyber security threat. ( )

3 Complete the missing parts using the words between the brackets:

(Wireless –Copyright- Operating system - Data breach - eyes)

1. .... is used for managing the computer's functions.
2. Electronic games can strain your .... and cause headaches
3. .... networks connect without wire.
4. .... includes written, visual, audio, video, and web material
5. .... occurs when unauthorized parties gain access to confidential data and information.

15 محافظة القليوبية 2024

1 Choose the correct answer:

1. A .... Connects devices with physical wiring and cables.
   a. wireless network b. wired network
   c. network d. Wi-Fi
2. Augmented reality can be done through a ....
   a. tablet b. computer c. hardware d. printer
3. .... is a database which includes all the items owned by a library.
   a. Library b. A library Catalog
   c. Key words d. search engine
4. .... is the standard programming language used to create webpages.
   a. HTML b. Android c. windows d. scratch
5. One of the following tags is false ....
   a.<i> </i> b.<a>
   c.   d. <h1> </h1>
6. .... scans your face using your device's Camera to confirm your identity.
   a. Facial recognition b. Authentication
   c. Fingerprints d. Full encryption
7. .... is the greatest cyber security Threat.
   a. Malware b. Antivirus c. Firewall d. Spoofing
8. Books whose authors have been deceased for 50 years are ....
   a. Copyrighted b. Creative Common
   c. in public domain d. none of them
9. .... provides aback up for Your Files.
   a. Cloud computing b. Social media
   c. Web browser d. MS Teams
10. .... is a Microsoft program that can help you share your work with your friends.
   a. Word b. PowerPoint
   c. OneDrive d. Excel

2 Put (✓) or (✗):

1. A computer doesn't need network connection devices to transfer data. ( )
2. Assistive technology helps people of determination to be included in the society. ( )
3. Windows is an open-source software that can be edited by anyone. ( )
4. Use a webcam to limit the dangers of electronic games. ( )
5. Using the word program, you can draft ideas, a story, or an assignment. ( )

16 محافظة المنوفية - إدارة تلا التعليمية 2024

1 Put (✓) or (✗):

1. A modem converts the signal from the internet service provider (ISP), into a digital signal that can be read by devices. ( )
2. Artificial intelligence (AI) is the ability of the computer to think and learn. ( )
3. Virtual reality (VR) is a virtual 3-D environment. ( )
4. (ROS) is an open-source software used for building robot applications. ( )
5. Apple computer devices work on the Windows operating system. ( )

2 Choose the correct answer:

1. MFA requires at least .... ways of identifying yourself.
   a. two b. three c. four d. five
2. The <h1>.....</h1> tag refers to ....
   a. create paragraph b. largest head
   c. subheading d. smaller subheading

3 Verify that the websites that you frequent are ....
a. safe b. real c. all of them d. none of them

4 The <a>... tag refers to ....
a. italic font b. strong font c. hyperlink d. heading

5 .... is one of cloud computing application.
a. OneDrive b. One c. Drive d. all of them

6 .... will scan your face using your device's camera.
a. Fingerprint authentication b. MFA
c. Facial recognition d. Assistive technology

7 Types of cyber threats is ....
a. malware b. spoofing c. all of them d. none of them

8 .... refers to work that has been granted permission to share by.
a. Copyright b. Creative commons
c. Hacking d. both a and b

9 .... converts data into a code to prevent unauthorized user access.
a. Copy b. Paste c. Data encryption d. Data breach

10 When you choose .... it opens a blank document allows you to draft ideas.
a. Word b. Outlook c. PowerPoint d. Excel

17 محافظة دمياط 2024

1 Put (✓) or (✗):

1 Electronic games can strain your hand. ( )
2 Modem converts the signal from the Internet service provider (ISP). ( )
3 Devices can be connected without wireless or (Wi-Fi). ( )
4 A library catalog is a database that includes all the items owned by a library. ( )
5 Apple computer runs on the Windows operating system. ( )
6 The tag <h1>...</h1> reefer to smaller subheadings. ( )

7 Copyright includes only the written material. ( )
8 No creator permission is required if the creator has been deceased for at least 50 years. ( )

2 Choose the correct answer:

1 The .... is an example of a general database which covers many subjects.
a. Facebook b. EKB
c. Google d. OneDrive

2 The abbreviation of artificial intelligent is ....
a. ALT b. IA
c. AR d. AI

3 .... is a person who handles the buying and selling of shares.
a. A broker b.LAN
c. A scanner d. A programmer

4 .... networks connect without wiring.
a. Complex b. Wireless
c. Imitate d. All of them

5 You can search for information from magazines and newspapers through the ....
a. database b. search engines
c. Google Chrome d. catalog

6 The most popular mobile OS are ....
a. Android b. Apple iOS
c. both of them d. none of them

7 Programmers use Hyper Text Markup Language (HTML) to create ....
a. web pages b. modify
c. source d. slide show

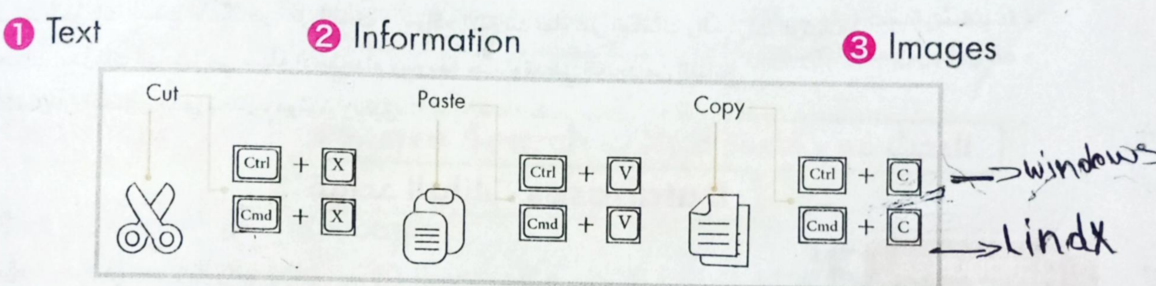
Lesson 5

Digital Research Skills

Useful Digital Editing Tools

- Copy, cut, and paste are some of the most commonly used word processing commands.
- They are very useful into a word processing file when copying, cutting, or pasting:

1. Text
2. Information
3. Images



- أوامر النسخ والقص واللصق هي بعض أوامر معالجة الكلمات الأكثر استخدامًا.
- هذه الأوامر تكون مفيدة جدًا عند نسخ أو قص أو لصق نص أو معلومة أو صور.

Digital Search Tools
أدوات البحث الرقمي

1. **Internet searches** البحث عبر الإنترنت
2. **Specialized search engines** محركات البحث المتخصصة
3. **Verified online libraries** المكتبات الموثوقة عبر الإنترنت

- All of these tools are used to search for information, but the results will be different.
- Knowing what results you need helps to inform which search tool(s) you could use.

- تساعد الأدوات في البحث عن المعلومات المطلوبة، لكنَّ النتائج الصادرة عن كلٍّ منها تكون مختلفة.
- تساعد معرفة النتائج التي تحتاج إليها في تحديد أداة/أدوات البحث التي يمكنك استخدامها.

Library Catalogs فهرس المكتبات

Library catalog

It is a **database** that includes all the items owned by a library.

- **فهرس المكتبة:** هو قاعدة بيانات تضم كل المصادر والعناصر التي تحتويها المكتبة.

» A library catalog search may include **recently published books**, including **e-books** with the most recent research about a subject.

Example: The catalog of the Library of Alexandria through the following link: https://www.bibalex.org.

- قد يتضمَّن البحث في فهرس المكتبة كتبًا منشورة حديثًا، بما في ذلك الكتب الإلكترونية التي تحوي أحدث الأبحاث في موضوع معيَّن.
- **مثال:** فهرس مكتبة الإسكندرية الذي يمكنك استخدامه من خلال الرابط التالي: https://www.bibalex.org

Conducting a Database Search البحث في قاعدة البيانات

» When you search any database:

1. Use a **keyword** search.
2. Review the results.
3. Search again with those terms.
4. You can use other database fields, such as author or journal title to narrow a search.



» Limiting a search to the last few years will help you find the most up-to-date research.

- **عند البحث في أيِّ قاعدة بيانات:**

1. استخدِم البحث بالكلمات المفتاحية.
2. أعد النظر في نتائج عناوين الموضوع.
3. ابحث مجددًا باستخدام هذه المصطلحات.
4. يمكنك استخدام حقول أخرى متوفرة في قاعدة البيانات، مثل: اسم المؤلِّف أو عنوان المجلة؛ لتضييق نطاق البحث.

- سيساعدك نطاق البحث بتحديد التاريخ في العثور على أحدث الأبحاث.

أهم الكلمات والمصطلحات

kills	مهارات	Phrases	عبارات
lewspapers	صحف	Online libraries	مكتبات إلكترونية
ser-friendly	سهلة الاستخدام	Magazines	مجلات
valuation	تقييم	Collection	مجموعة
ublished books	كتب منشورة	Heading	عنوان
brary catalog	فهرس المكتبة	E-books	كتب إلكترونية

Choose the correct answer:

1 .... is/are some of the most commonly used word processing command

a. Copy　b. Cut　c. Paste　d. All of them

2 .... can help people search internet websites based on t keywords.

غربية 2024) (الإسكندرية – وسط 2024)

a. A database　b. Search engines

c. A library catalog　d. Libraries

3 .... are collections of information which are typically store in a computer system and can be accessed.

قاهرة – عين شمس 2024)

a. Search results　b. Library catalogs

c. Databases　d. Websites

4 To add copied content to another place, use the .... command

a. Cut　b. Copy　c. Paste　d. Del

(أبناؤنا في الخارج 2024)

5 .... is an example of a general database which covers many subjects.

(دمياط 2024)

a. The EKB　b. Facebook　c. Google　d. None of them

6 .... is a database which includes all the items owned by a library.

a. The EKB　b. A search engine

c. A library catalog　d. A keyword

(القليوبية 2024)

7 You can search for information from magazines and newspapers through ....

(دمياط 2024)

a. search engines　b. databases

c. Google Chrome　d. smart phones

8 When you search online, make sure the result you get is ....

a. credible　b. accurate　c. biased　d. both a and b

9 To move content from one place to another, use the .... command.

a. Copy　b. Del　c. Cut　d. Paste

(أبناؤنا في الخارج 2024)

10 A .... is used when copying, pasting, or cutting information.
a. digital editing tool   b. QR code
c. hyperlink   d. drawing tool (الإسكندرية – برج العرب 2024)

11 Search engines help people to search internet websites based on ....
a. keywords   b. phrases   c. a and b   d. none of them

12 You can search for some books in the school library using ....
a. databases   b. an email
c. a printer   d. user experience

(الإسكندرية – برج العرب 2024)

13 Which of the following is NOT a database?
a. EKB   b. Library catalog
c. Alexandria Digital Library   d. Google

2 Put (✓) or (✗):

1 Copy, Cut, and Paste are word processing commands. (السويس 2024) (✓)
2 All digital search tools give similar results. (✗)
3 You can use the library's website on the internet. (الإسكندرية – منتزه أول 2024) (✓)
4 Databases can be accessed for free through a school. (✓)
5 A database is useful for searching information from magazines, newspapers, and books. (✓)
6 Author and journal title can be used to widen a search range in databases. (الإسكندرية – وسط 2024) (✗)
7 Google is a reliable database. (✗)
8 A library catalog is a database which includes all the items owned by a library. (دمياط 2024) (القاهرة – عين شمس 2024) (✓)
9 The Egyptian Knowledge Bank (EKB) is an untrusted source of information. (الإسكندرية – وسط 2024) (✗)
10 Be sure the search result you select is credible and accurate. (✓)
11 Search engines are user-friendly, very fast, and often give many results. (✓)

12 The Library of Alexandria catalog is based on a database. (✓)

(الإسماعيلية 2024)

13 You choose the search tool based on the type of results you need. (✓)

14 General databases provide information on a specific topic. (X)

15 You can use other database fields, such as author or journal title, to narrow a search. (✓)

3 Complete the following sentences using the words between the brackets:

(library catalog – search engine – keywords – databases – EKB)

1 A .... help in searching for data on websites. (السويس 2024)

2 The .... is an example of a general database that covers many subjects.

3 It is preferable to use .... to search for information on a database.

4 .... are collections of information which are typically stored in a computer system.

(البحيرة – دمنهور 2024)

5 A .... is a database which includes all the items owned by a library.

(الجيزة – الشيخ زايد 2024)

Test Yourself on Lessons 5&6

1 Choose the correct answer:

1. When searching in any database, it is preferable to use ....
   a. random sentences b. keywords
   c. symbols d. numbers (أسيوط 2024)
2. .... is/are some of the most commonly used word processing commands.
   a. Copy b. Cut c. Paste d. All of them
3. A library catalog is a .... which includes all items owned by the library.
   a. magazine b. blog c. database d. browser
4. .... look like tablets but are mainly used for reading books.
   a. E-books b. Modems c. Smartphones d. E-readers
5. You can use other database fields to narrow a search, such as ....
   a. author b. journal title c. both a & b d. none of them
6. .... is an example of a general database which covers many subjects.
   a. Business b. Law c. The EKB d. Instagram
7. .... are types of mobile devices.
   a. Smartphones b. Tablets c. E-readers d. All of them

2 Put (✓) or (✗):

1. A library catalog is a database which includes all the items owned by a library. (   )
2. A search engine is a collection of information stored in a computer system. (   )
3. E-readers look like tablets but are mainly used for reading books. (   )
4. The EKB results are credible and accurate. (الغربية 2024) (   )
5. Mobile devices cannot be connected to other devices. (   )
6. Search engines are user-friendly, very fast, and often result in many results. (   )
7. The EKB is an example of a general search engine. (   )
8. A search engine is a good place to search for information offline. (   )

October Exam on Lessons



1 Choose the correct answer:

1 .... sends data to a specific device over a network. (الدقهلية 2024)
a. A modem b. A switch c. A server d. None of them

2 .... is an example of a public database that covers various topics. (أسيوط 2024)
a. A blog b. Google
c. Facebook d. The Egyptian Knowledge Bank

3 Technology helps people of determination; for example, screen magnification software and smart gloves are called ....
a. information technology b. assistive technology
c. cutting-edge technology d. database (الإسكندرية – منتزه ثان 2024)

4 A networks that is connected without wiring is called ....
a. physical wiring b. wireless c. port d. cable
(الإسكندرية – شرق 2024)

5 .... are collections of information which are typically stored in a computer system and can be accessed. (القاهرة – عين شمس 2024)
a. Search engines b. Library catalogs
c. Databases d. Websites

6 The EKB results are credible and ....
a. inaccurate b. narrow c. biased d. accurate

7 .... is a database which includes all the items owned by a library.
a. A search engine b. A mobile phone
c. A library catalog d. Google Chrome

2 Put (✓) or (✗):

1 A router connects a modem to different networks. (
2 Futuristic technology can improve daily life. (
3 AI, AR, and VR have had no impact on modern life. (
4 Screen readers help the blind and visually impaired read a text. (
5 Use your evaluation skills to ensure the content you select is biased. (
6 Smart gloves empower deaf people to translate their signs in real time spoken or text output. (الإسكندرية – شرق 2024) (
7 User experience is always negative. (
8 Disabled individuals can use virtual assistants to make phone calls. (

Lesson 7 Operating Systems

Operating system (OS)

- It is the software that manages a computer's functions, such as:
  1. Memory
  2. Drives
  3. Printers
  4. Other devices

• نظام التشغيل: هو البرنامج الذي يدير وظائف الكمبيوتر مثل: الذاكرة، ومُحرِّكات الأقراص، والطابعات، والأجهزة الأخرى.

Functions:

1. It runs a computer's **software** and **hardware**.
2. It allows a user to communicate with the computer easily.
3. It includes accessibility features such as **screen readers** and **magnifiers**.

• وظائف نظام التشغيل:

1. يدير برامج وأجهزة الكمبيوتر.
2. يتيح للمستخدم التواصل مع الكمبيوتر بسهولة.
3. يتضمَّن ميزات إمكانية الوصول مثل قارئات ومكبرات الشاشة.

Computer Operating Systems أنظمة تشغيل الكمبيوتر

Most computers come **pre-loaded** with an **operating system**, such as:

• تأتي معظم أجهزة الكمبيوتر مُحمَّلة مسبقًا بنظام تشغيل مثل:

1 Microsoft Windows

- It's the **most popular** worldwide.

• يعمل على غالبية أجهزة الكمبيوتر في العالم.

- It uses **closed-source** software.

• يستخدم برنامجًا مغلق المصدر.

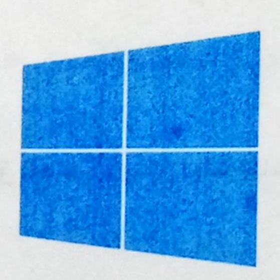
2 MacOS

- It runs on **Apple** computers.

• يعمل على أجهزة الكمبيوتر أبل.

- It uses **closed-source** software.

• يستخدم برنامجًا مغلق المصدر.





Mobile Operating Systems أنظمة تشغيل الهواتف المحمولة

- Mobile devices have mobile operating systems.
- The most popular mobile OSs are Android and Apple iOS.

- تمتلك الأجهزة المحمولة أنظمة تشغيل الأجهزة المحمولة.
- أكثر أنظمة تشغيل الأجهزة المحمولة شيوعًا هي نظام أندرويد (Android)، ونظام تشغيل الهواتف الذكيّة التابعة لشركة آبل «Apple iOS».

1 Android

- It uses open-source software.

- يستخدم برنامجًا مفتوح المصدر.



2 Apple iOS

- It runs on iPhone and iPad.

- يستخدم على أجهزة الآيفون والآيباد.

- It uses closed-source software.

- يستخدم برنامجًا مغلق المصدر.



- Both Android and iOS perform the same basic functions, such as:
  1. Messaging
  2. Web access
  3. Video chat
  4. Touch functions

- يؤدّي كلٌّ من نظام أندرويد ونظام تشغيل iOS الوظائف الأساسية نفسها، مثل:
  1. إرسال الرسائل.
  2. الاتصال بشبكة الإنترنت.
  3. الدردشة عبر الفيديو.
  4. العمل بخاصية اللمس.

Open-source software

- It means a person can change and read the programming code.
- البرنامج مفتوح المصدر: يمكن لأيِّ شخص قراءة شفرة البرمجة أو تغييرها.

Closed-source software

- It can't be seen or changed by the public.
- البرنامج مغلق المصدر: لا يمكن لعامَّة الناس رؤية شفرة البرمجة الخاصَّة به.

Cutting-Edge Operating Systems أنظمة التشغيل المتطورة



- Cutting-edge technologies often use specialized operating systems.
- For example:

1. The Robot Operating System (ROS):
   - It's open-source software.
   - It's used for building robot applications.
2. Self-driving cars OS:
   - There are multiple operating systems developed by multiple companies (e.g: Apple Carplay and Windows Automotive).

• غالبًا ما تستخدم التكنولوجيا المتطورة أنظمة تشغيل متخصصة، على سبيل المثال:

1 نظام تشغيل الروبوت (ROS): •من البرمجيات مفتوحة المصدر. •يستخدم لبناء تطبيقات الروبوت.

2 نظام تشغيل السيارة ذاتية القيادة: •هناك أنظمة تشغيل متعددة طوَّرتها شركات متعددة مثل: (Apple Carplay, Windows Automotive).

Programming Languages لغات البرمجة

Programming languages

- They give instructions to a computer in code.

• لغات البرمجة تُعطي الأوامر لجهاز الكمبيوتر على هيئة شفرة.

- They evolved from:

Simple machine language (binary) to ⇨ high-level (human-like) languages.

• تطوَّرت لغات البرمجة من لغة الآلة البسيطة (النظام الثنائي) إلى لغات عالية المستوى شبيهة باللغة التي يفهمها البشر.

- Features: سمات لغات البرمجة

1. They're usually open source; anyone can see, modify, or distribute the code.
2. They often share similarities; once you learn one, it is easier to learn others.

3 Programmers choose a language based on a specific **purpose**.

1 عادةً ما تكون مفتوحة المصدر (يمكن لأي شخص رؤية التعليمات البرمجية أو تعديلها أو توزيعها).
2 غالبًا ما تتشابه لغات البرمجة؛ بمجرد أن تتعلّم واحدة، يصبح من السهل عليك تعلّم اللغات الأخرى.
3 يختار المبرمجون اللغة المناسبة بناءً على الهدف المطلوب.

Example: HTML

- **HTML** (Hyper Text Markup Language) is commonly used to create **websites**.

Features of HTML:

1. It's easy to learn and use.
2. It's easy to make changes.
3. It's **compatible** with all major web browsers.
4. It allows creators to add elements to web pages, such as text, links, images, audio, and videos.

- تستخدم لغة ترميز النص التشعبي (HTML) بصورة شائعة لإنشاء المواقع الإلكترونية.
- **مزايا لغة HTML:**

1. سهولة تعلُّمها واستخدامها.
2. سهولة إجراء تعديلات.
3. متوافقة مع جميع متصفحات الويب الرئيسية.
4. تسمح للمبرجين بإضافة عناصر إلى صفحات الويب، مثل: النصوص، والروابط، والصور، والمقاطع الصوتية، ومقاطع الفيديو.

أهم الكلمات والمصطلحات

Screen magnifiers	مكبرات الشاشة	Include	يتضمّن
Pre-loaded	مُحملة مسبقًا	Perform	يؤدي
The most popular	الأكثر شهرة	Open-source	مفتوح المصدر
Individual	فرد - فردي	Major	رئيسي
Self-driving cars	سيارات ذاتية القيادة	Robot applications	تطبيقات الروبوت
Similarities	التشابهات	Creators	مبدعون
Compatible	متوافق	Machine	آلة

Exercises on Lesson 7

1 Choose the correct answer:

1. The .... is the software that manages a computer's functions, such as memory, drives, and printers. (الإسكندرية – منتزه ثانٍ 2024) (أبناؤنا في الخارج 2024)
   a. programming language b. operating system
   c. input unit d. email
2. Most computers come .... with an operating system.
   a. without b. pre-loaded c. damaged d. uninstalled
3. .... is open-source software used for building robot applications. (الجيزة – الشيخ زايد 2024) (الإسكندرية – وسط 2024)
   a. Windows b. Microsoft Word
   c. ROS d. None of them
4. .... software means that the code can't be seen or changed by the public.
   a. Open-source b. Closed-source
   c. Both of them d. None of them
5. .... runs on most computers worldwide.
   a. Android b. macOS c. Windows d. iOS
6. .... is an operating system for Apple computers.
   a. Windows b. macOS c. iOS d. ROS
7. The most popular mobile OS is/are .... (دمياط 2024)
   a. Android b. Apple iOS c. macOS d. both a and b
8. The .... runs a computer's software and hardware.
   a. operating system b. CPU
   c. hardware d. keyboard
9. The programming code of .... can be changed by anyone.
   a. iOS b. Windows c. macOS d. Android

10 A .... is a cutting-edge technology that uses a specialized c

a. calculator b. typewriter c. self-driving car d. refrigerator

11 .... is an open-source operating system for mobile devices

a. Android b. iOS c. macOS d. Windows

(2024 البحيرة)

12 .... is a mobile operating system.

a. ROS b. iOS c. Linux d. macOS

13 There are many operating systems for computers, such as Windows and ....

a. iOS b. Android c. ROS d. macOS

14 .... is a closed-source operating system for iPhone and iPa

a. Android b. Apple iOS c. Windows d. macOS

(2024 الإسكندرية – شرق)

15 Programming languages have evolved from .... to human-li languages.

a. complex b. binary c. pictorial d. none of them

16 All the following are operating systems, except ....

a. Android b. macOS c. Google d. Windows

17 A/An .... gives commands to the computer in the form o codes that can be used to create animation. (2024 الإسكندرية – برج العرب)

a. assistive technology b. programming language

c. database d. digital footprint

18 HTML stands for ....

a. High Tech Markup Language b. Hyper Text Markup Language

c. Human Text Machine Language d. Hybrid Text Markup Language

19 .... software means that the programming code can be read or changed by anyone.

a. Open-source b. Closed-source

c. Both of them d. None of them

20 HTML is .... with all the major web browsers.

a. compatible b. incompatible

c. irrelevant d. unnecessary

2 Put (✓) or (✗):

1. Most computers come pre-loaded with an operating system. ( )
2. Android is an open-source operating system.(الإسكندرية – وسط 2024) ( )
3. Accessing the web is not one of the basic functions of operating systems. ( )
4. Linux is the most popular operating system all over the world. ( )
(القاهرة الجديدة 2024)
5. HTML is commonly used to create web pages. ( )
6. Operating systems manage software only. ( )
7. Android operating system is used in iPhone and iPad. ( )
(القاهرة – عين شمس 2024)
8. Apple computers run on the Windows operating system. ( )
(المنوفية – تلا 2024) (دمياط 2024)
9. Apple Carplay is an operating system for self-driving cars. ( )
10. Windows is open-source software that can be edited by anyone.
(القليوبية 2024) ( )
11. Programmers choose a language based on the purpose of the program. ( )
12. iOS uses closed-source software. (الإسكندرية – منتزه أول 2024) ( )
13. The Robot Operating System (ROS) is a closed-source software used for building robot applications. (الإسكندرية – شرق 2024) ( )
14. Both Android and iOS perform the same basic functions, such as web access, video chat, and touch functions. ( )
15. Similarities between programming languages facilitate learning them. ( )
16. Self-driving cars don't need operating systems to perform. ( )
17. The Android operating system is a closed source mobile operating system.
(الإسكندرية – برج العرب 2024) ( )
18. Programming languages are usually closed sources. ( )

19 Closed-source software means the code can be read and changed by anyone. ( )

20 HTML is commonly used for creating web pages. ( )

21 HTML isn't compatible with the major web browsers. ( )

22 There are multiple operating systems powering self-driving cars. ( )

Theme 1

3 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 MacOS	a. means that anyone can read and change the code.
2 iOS	b. uses open-source software.
3 Operating system	c. runs on iPhone and iPad devices.
4 Open-source software	d. is an operating system for Apple computers.
5 Android	e. is the software that manages a computer's functions.

1 .... 2 .... 3 .... 4 .... 5 ....

4 Look and match:

Column (A)	Column (B)
1 MacOS	a. is the operating system used on Apple mobile devices.
2 iOS	b. is the operating system used on Microsoft PCs.
3 Android	c. is the operating system used on mobile devices other than Apple products.
4 Windows	d. is the operating system used on Apple PCs.

1 .... 2 .... 3 .... 4 ....

Lesson 8 Website Design

HTML

- **Hyper Text Markup Language (HTML)** is the standard programming language used to create **web pages**.

- لغة ترميز النص التشعبي (HTML): هي لغة البرمجة القياسية المُستخدَمة في إنشاء صفحات الويب.

» HTML describes the structure of a web page.

It consists of a series of elements such as:

- **Headings**
- **Paragraphs**
- **Links**
- **Images**

» HTML elements are the building blocks of web pages.

» Web browsers read HTML documents and display the content according to the **HTML tag**

- لغة (HTML) تصف هيئة صفحة الويب.
- وهي تتكوَّن من سلسلة من العناصر مثل: العناوين، والفقرات، والروابط، والصور.
- عناصر لغة HTML هي المكونات الأساسية لصفحات الويب.
- تقرأ متصفحات الويب المستندات المكتوبة بلغة HTML، وتعرض المحتوى وفقًا لوَسم لغة HTML.

Structure of HTML Tags هيئة وسوم HTML

» Tags have **three** main parts:

1. **An opening tag** < > وسم البداية
2. **The content** المحتوى
3. **A closing tag** </ > وسم النهاية

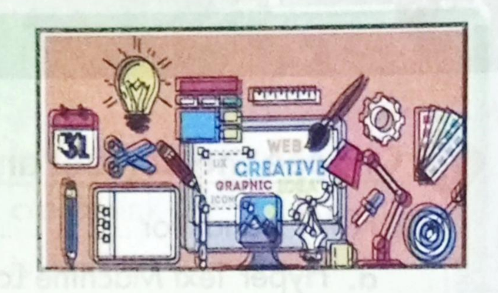
- تتكوَّن الوسوم من ثلاثة أجزاء رئيسة: وَسم البداية (opening tag)، والمحتوى (content)، ووَسم النهاية (closing tag).

Some HTML tags:

Element	HTML Tag	Remarks
Largest heading	Largest heading	is called an opening t... is called a closing ta...
Subheading	Subheading	The heading tags vary from h1 (the largest font size) to h... (the smallest).
Smallest subheading	Smaller Subheading	
Paragraph	This is a paragraph	
Font size	<font size="1">	• <font size =1> means the smallest size. • The size values from 1 to 7.
Font color	<font color="red">	
Hyperlink	Visit EKB 	• The <a> tag is used to create a hyperlink. • The href attribute specifies the URL of the link.
Italics (Emphasized text)	<i> Emphasized text </i>	
Bold	Bold text 	

Lesson 8

Website Design تصميم موقع إلكتروني



- HTML elements break up web pages to make them easier to scan, read, and navigate.
- HTML code can help people with low vision (visually impaired) to distinguish between parts of a web page.

- تُقسِّم عناصر لغة ترميز النص التشعبي صفحات الويب؛ لتسهيل إمعان النظر فيها وقراءتها وتصفُّحها.
- يساعد كود لغة ترميز النص التشعبي أيضًا الأشخاص ضعاف البصر على التمييز بين أجزاء صفحة الويب.

NOTES:

1. A large heading at the top of the page catches attention.
2. Subheadings make the text easy to scan so a reader can find the information they want.
3. Text broken up into paragraphs makes it easy for the reader to scan for the information they want.
4. Images also attract attention and can trigger different emotions.
5. To make the images accessible, add image and alt-text tags.

1. العنوان الكبير في أعلى الصفحة يلفت الانتباه.
2. العناوين الفرعية تجعل النص من السهل مسحه؛ حتى يتمكن القارئ من العثور على المعلومات التي يريدها.
3. النص المقسم إلى فقرات يجعل من السهل على القارئ مسح المعلومات التي يريدها.
4. تجذب الصور أيضًا الانتباه، ويمكن أن تثير مشاعر مختلفة.
5. لتسهيل الوصول إلى الصور، أضف علامات الصور والنص البديل.

أهم الكلمات والمصطلحات

HTML	لغة ترميز النص التشعبي	Content	محتوى
Structure	التركيب	Series	سلسلة
Paragraph	فقرة	Elements	عناصر
Subheading	عنوان فرعي	Hyperlink	رابط
Accessibility features	مزايا الوصول	Distinguish	يميز
Catch attention	يجذب الانتباه	Alt-text	النص البديل



1 Choose the correct answer:

1. HTML stands for ....
   a. Hyper Text Machine Language
   b. Hyper Text Markup Language
   c. High Tech Markup Language
   d. Human Text Markup Language

2. .... is the standard programming language used to cr... web pages. (...رية – وسط 2024)
   a. HTML b. Heading c. Text d. Site

3. HTML consists of a series of elements, such as ....
   a. headings b. paragraphs
   c. links and images d. all of them

4. HTML language consists of three main parts and there is a .... at the beginning and the end. (...نا في الخارج 2024)
   a. paragraph b. word c. drawing d. tag

5. To create a paragraph in the web page, use the tag ....
   a. <h1> b. <i> c. <font> d. <p>

(...سكندرية – شرق 2024)

6. The closing tag for a paragraph in HTML is ....
   a. </p> b. <p/> c. </para> d. <end p>

7. HTML tags have .... main parts.
   a. two b. three c. four d. five

8. <a> tag refers to the .... (...نوفية – تلا 2024)
   a. italic font b. strong font c. hyperlink d. paragraph

9. Programmers use Hyper Text Markup Language (HTML) to creat... .... (...مبابة 2024)
   a. web pages b. games c. sources d. databases

10 To make the images accessible on web pages, add image and .... tag.

a. alt-text b. meta c. title d. address

11 The <h1>.....</h1> tag refers to .... (المنوفية – تلا 2024)

a. create paragraph b. largest heading
c. subheading d. create link

12 A large heading at the top of a page is used to ....

a. confuse readers b. catch attention
c. reduce space d. slow loading

13 To create the smallest subheading in HTML, use the .... tag.

a. <h1> </h1> b. <h6> </h6>
c. <p> </p> d. <a>

14 The pages written by HTML language is displayed by ....

a. photo editing b. spreadsheets
c. PowerPoint presentations d. web browsers (أبناؤنا في الخارج 2024)

15 Large headings are placed at the .... of the web page to catch attention.

a. middle b. bottom c. top d. end

16 The HTML tag .... is used to create a hyperlink.

a. <a> b. <h1> </h1>
c. d. <h2> </h2> (الإسكندرية – منتزه أول 2024)

17 HTML tags consist of an opening tag, a closing tag, and ....

a. the content b. comments c. attributes d. none of them

18 The .... tag is used to italicize text in HTML.

a. <h> </h> b.
c. <i> </i> d.

19 To make the text bold in HTML, you can use the .... tag.

a. <i> b. <strong> c. <s> d. <i>

(القاهرة الجديدة 2024)

20 .... make(s) the text easy to scan and read in a web page.

a. Images b. Subheadings
c. Music d. Videos

21 The HTML tag <h2>......</h2> refers to a .... (2024 ...)

a. subheading
b. small subheading
c. large heading
d. paragraph

22 The tag <Font Color="Red"> is used in HTML language for ....

a. the largest font
b. an emphasized font
c. a subheading
d. a red font

23 The tag used for emphasized text in HTML is ....

a. <strong>
b. <em>
c. <i>
d. <bold>

24 The false tag from the following tags is .... (2024 ...نوبية)

a. <i> </i>
b. <a>
c.
d. <h1> </h1>

25 HTML code can assist people with .... to distinguish parts of a web page.

a. hearing issues
b. low vision
c. mobility issues
d. speech problems

26 Images in a web page can be used to ....

a. slow loading
b. attract attention
c. increase file size
d. confuse users

2 Put (✓) or (✗):

1 HTML language has an opening tag and a closing tag only. ( )

(الإسكندرية – منتزه ثانٍ 2024)

2 HTML is a standard programming language used to create web pages.

(الإسكندرية – شرق 2024) (السويس 2024) ( )

3 HTML include only headings and paragraphs elements. ( )

4 In HTML, the <i> tag is used to display text in italics. ( )

(القاهرة الجديدة 2024)

5 The <strong> tag is used to write a bold text in the web page. ( )

(الإسكندرية – شرق 2024)

6 A large heading at the top of the page catches attention. ( )

7 The HTML tag <h6>.....</h6> refers to the largest heading. ( )

(البحيرة – دمنهور 2024)

8 Subheadings font size is larger than headings. ( )

9 The <font color> tag can be used to change the text color in HTML. ( )

10 HTML code can help visually impaired people to distinguish between parts of a web page. ( )

11 The HTML tag <p>....</p> is used to create a hyperlink.(الغربية 2024) ( )

12 To make the images accessible, add image and alt-text tags. ( )

13 The <h1>......</h1> tag refers to create paragraph. ( )

(الإسكندرية – وسط 2024)

14 Adding Images to web pages attract attention and trigger different emotions. ( )

15 When the text is organized into paragraphs, readers can find information quickly. ( )

3 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 <strong>	a. defines a paragraph in HTML.
2 <h1>	b. is used to create a hyperlink in HTML.
3 <a>	c. is used to make text bold in HTML.
4 <i>	d. is used to make text italic in HTML.
5 <p>	e. is used to create the largest heading in HTML.

1 .... 2 .... 3 .... 4 .... 5 ....

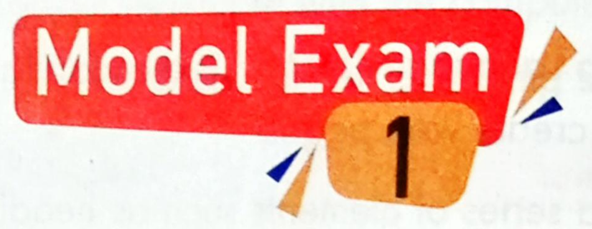
Test Yourself on Lessons 7&8

1 Choose the correct answer:

1. .... is the standard programming language used to create web pages. (القليوبية 2024)
   a. HTML b. Android c. Windows d. Scratch
2. Learning one programming language makes it .... to learn others.
   a. harder b. easier c. impossible d. unnecessary
3. HTML describes the .... of a web page.
   a. color b. style c. structure d. size
4. .... is used on both iPhone and iPad.
   a. Android b. Windows c. Apple iOS d. Linux
5. The HTML tag <p>.....</p> refers to .... (القاهرة – عين شمس 2024)
   a. the header b. the italic text
   c. creating a paragraph d. the font
6. Adding .... to images helps people with visual impairments.
   a. borders b. colors c. alt-text d. animations
7. It is difficult to use the computer device and mobiles without .... (أبناؤنا في الخارج 2024)
   a. emails b. operating systems
   c. scanners d. games

2 Put (✓) or (✗):

1. An operating system only manages a computer's software. ( )
2. The tag <h1>...</h1> refers to smaller subheadings. (دمياط 2024) ( )
3. Android runs on Mac devices. (الدقهلية 2024) ( )
4. Tags have four main parts. ( )
   (الإسكندرية – منتزه أول 2024)
5. The <i> tag is used for emphasized text in HTML. ( )
6. Windows is an operating system used on Apple PCs. (الغربية 2024) ( )
7. HTML elements are the building blocks of web pages. ( )



1 Choose the correct answer:

1. .... technology helps people of determination with tasks they find challenging.
   a. Assistive b. Outdated c. Virtual d. None of them
2. HTML is mainly used to create ....
   a. tables b. presentations c. documents d. web pages
3. The .... sends data to a specific device over the network. (الإسماعيلية 2024)
   a. scanner b. speaker c. switch d. computer
4. Instructions to a computer are given in the form of ....
   a. Word file b. code c. video d. images
5. .... combines the real world and virtual reality by adding computer virtual-generated images. (البحيرة – دمنهور 2024)
   a. Augmented reality b. Virtual reality
   c. Artificial intelligence d. Assistive technology

2 Put (✓) or (✗):

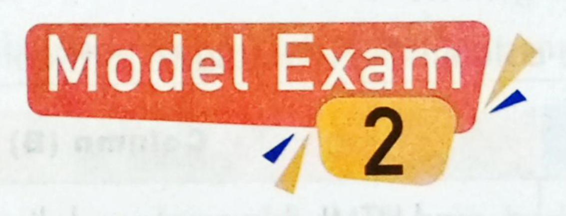
1. A wireless network connects devices with physical wiring and cables. ( )
2. Artificial intelligence is one of the cutting-edge technologies. ( )
3. Self-driving cars don't need an operating system to perform. ( )
4. To make the images accessible, add image and alt-text tags. ( )
5. Smart gloves empower deaf people to translate their signs in real-time to spoken or text output. (الإسكندرية – شرق 2024) ( )

3 Complete the following sentences using the words between the brackets:

(Cut – E-readers – Digital editing – EKB – Smart gloves)

1. The .... is an example of a general database.
2. .... look like tablets but are mainly used for reading books.
3. The command .... is used to move a text or an image.
4. .... translate sign language to speech or text.
5. .... tools are used when copying, pasting, or cutting information.

(الدقهلية 2024)



1 Choose the correct answer:

1. A .... sends data to a specific device over a network. (الدقهلية 2024)

   a. modem b. switch c. server d. none of them

2. .... is an operating system for Apple computers.

   a. Windows b. macOS c. iOS d. ROS

3. The EKB results are credible and .... (الدقهلية 2024)

   a. inaccurate b. narrow c. accurate d. unclear

4. To experience virtual reality, users often wear ....

   a. 3D glasses b. VR headset c. AR headset d. none of them

5. You can use your tablet to scan .... and access related videos, audios, and texts.

   a. PIN codes b. podcasts c. QR codes d. all of them

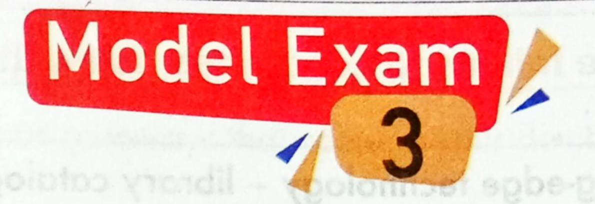
2 Put (✓) or (✗):

1. Futuristic technologies can't improve the lives of people of determina
2. Modern mobile devices function by touch.
3. <Strong> is a tag used to write a bold text in the web page.
   (الإسكندرية – شرق 2024)
4. Assistive technology helps people of determination to be included society.
5. The EKB results are credible and accurate. (الغربية 2024)

3 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 macOS	a. read HTML documents and display the content according to the HTML tags.
2 QR codes	b. are how people feel about a product.
3 Web browsers	c. can be scanned help students access information quickly and easily.
4 User experiences	d. is an operating system for Apple computers.
5 Futuristic technology	e. includes artificial intelligence, augmented reality, and virtual reality.

1 .... 2 .... 3 .... 4 .... 5 ....



1 Choose the correct answer:

1. Blind people can listen to texts uploaded to the istemai platform using ....
   a. Braille terminal b. a screen reader
   c. hearing aids d. magnifiers
2. The HTML tag <p>....</p> refers to .... (الجيزة – الشيخ زايد 2024)
   a. the largest heading b. the subheading
   c. the font color d. creating a paragraph
3. Wired networks use wires and cables that are connected to openings in devices called .... (أسيوط 2024)
   a. switches b. servers c. ports d. routers
4. .... are used to surf the web and check emails, like PCs.
   a. Smartphones b. Tablets c. E-readers d. Both a and b
5. When searching in any database, it is preferable to use ....
   a. full sentences b. keywords
   c. symbols and numbers d. none of them (أسيوط 2024)

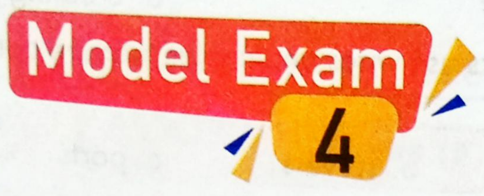
2 Put (✓) or (✗):

1. HTML is used for creating web pages. ( )
2. Augmented reality helps students become active participants in learning. ( )
3. Cutting-edge assistive technology has no effect on people of determination. ( )
4. Android is closed source; it can't be seen or changed by the public. (البحيرة – دمنهور 2024) ( )
5. The EKB is an inaccurate source of information. (

3 Complete the following sentences using the words betw the brackets:

(Cutting-edge technology – library catalog – iOS – Assistive technology – Android)

1. .... helps people of determination, such as hearing aids. (ماعيلية 2024)
2. .... is an operating system runs Apple iphones.
3. A .... is a database that includes all the items owned a library.
4. .... is one of the most popular mobile operating system worldwid
5. .... is the latest and most advanced technology.



1 Choose the correct answer:

1. Augmented reality combines the real world with a/an .... world. (لغربية 2024)
   - a. virtual
   - b. AI
   - c. actual
   - d. none of them
2. .... describes how people interact with and evaluate a product.
   - a. Futuristic technology
   - b. User experience
   - c. Virtual reality
   - d. Artificial intelligence
3. The .... tag is used to create a hyperlink in HTML.
   - a. <a>
   - b. <h>
   - c. <L>
   - d. <h1>
4. When conducting a digital search, make sure the information you get is ....
   - a. credible
   - b. accurate
   - c. unreliable
   - d. both a and b
5. HTML language consists of three main parts and there is a .... at the beginning and the end. (أبناؤنا في الخارج 2024)
   - a. paragraph
   - b. word
   - c. drawing
   - d. tag

2 Put (✓) or (✗):

1. Routers work as gateways that connect your device to the ISP. (القاهرة الجديدة 2024) ( )
2. Subheadings font size is larger than headings. ( )
3. "The Miracle Child" Rania Saleh is a programmer with Down Syndrome. ( )
4. Artificial intelligence (AI) is the ability of a computer to think, learn, and deduce. (الإسكندرية _ برج العرب 2024) ( )
5. It is recommended to use a keyword to conduct a database search. ( )

3 Complete the following sentences using the words between the brackets:

(Virtual reality – Augmented reality – Mobile devices – Artificial Intelligence – HTML)

1. .... is a virtual 3D environment that allows users to interact with the surroundings.
2. .... is the ability of a machine to think and learn.
3. .... are portable and can be held in landscape or portrait mode.
4. .... adds computer-generated images to show a 3D model of what looks like the real world.
5. .... is an abbreviation of Hyper Text Markup Language.

(الإسماعيلية 2024)

Model Exam 5

1 Choose the correct answer:

1. .... is computer apps that perform complex tasks that simulate the thinking and performance of the human element.

a. Artificial intelligence
b. augmented reality
c. Switch
d. Virtual reality

2 A network that is connected without wiring is called .... (2024 كندرية – شرق

a. physical wiring b. wireless c. ports d. cables

3 To make the text bold in HTML, you can use the .... tag.

a. <bold> b. <strong> c. <s> d. <b>

4 .... empower deaf people to translate their signs to spoken text output.

a. Hearing aids b. Smart gloves
c. Smart glasses d. Smart watches

5 A .... connects devices with physical wiring and cables. (2024 القليوبية

a. wireless network b. wired network c. network d. port

2 Put (✓) or (✗):

1 🔒 Kartik Sawhney is a computer expert. ( )

2 Artificial intelligence can be used to improve daily life. (الإسماعيلية 2024) ( )

3 Operating systems manage software only. ( )

4 🔒 There is no difference between smartphones and e-readers. ( )

5 The iOS uses closed-source software. (الإسكندرية – منتزه ثانٍ 2024) ( )

3 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 EKB	a. is used to create the smallest subheading in HTML.
2 <h1>	b. is an open-source operating system for mobile devices.
3 Android	c. is an example of a general database.
4 Search engines	d. are used to search on the internet using keywords.
5 <h6>	e. is used to create the largest heading in HTML

1 .... 2 .... 3 .... 4 .... 5 ....